
Monitoring Injuries in Orange County

A Report Based on Injury Deaths and Hospitalizations in 1996



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November 1999

The Chronic Disease and Injury Prevention Program was established on January 1, 1998. This is the first report of the monitoring system.



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November 1999

Our Colleagues in Injury Prevention,

We are pleased to share this first annual report on *"Monitoring Injuries in Orange County: A Report Based on Deaths and Hospitalizations in 1996"* with you. It is our hope that with accurate and compelling data, we will be able to work with you to improve the health of Orange County residents.

Let me share with you the impetus for this annual report. In January 1998, the County Board of Supervisors funded the Chronic Disease and Injury Prevention Program. The program has two goals: 1) to monitor the rates of chronic disease and injury in the county and 2) to help build the capacity of individuals, groups, organizations, and communities to prevent chronic disease and injury.

As a first step toward achieving these goals, we will publish annual reports on the rates of chronic disease and injury in the county. Our objective in publishing these reports is to inform residents about the rates of chronic disease and injury in the county, providing comparisons to California rates and the United States Department of Health and Human Services' *Healthy People 2000* objectives for the nation. These annual reports will then serve as the basis for white papers on selected chronic disease and injury prevention topics. Our staff will take these white papers to the community in order to collaborate with them on enhancing the services we are already providing and developing new services where there are gaps.

If you have any questions about this report, please contact Bob Olson, Ph.D., MPH, Program Supervisor of the Chronic Disease and Injury Prevention Program, at (714) 834-3892.

Thank you for your interest.

Sincerely

Mark B. Horton, MD, MSPH
Director of Public Health/Health Officer

Acknowledgements

We would like to thank the following people for reviewing this report:

Craig L. Anderson, DHSc, PhD, Epidemiologist, Pediatric Injury Prevention Research Group, University of California, Irvine

Michael L. Carson, MS, Senior Epidemiologist, Communicable Disease Control and Epidemiology, Orange County Health Care Agency

Ron LaPorte, Division Manager, Health Promotion and Disease Control, Orange County Health Care Agency

David Lawrence, MPH, RN, Center Director, California Center for Childhood Injury Prevention, San Diego State University

Hildy B. Meyers, MD, MPH, Medical Director, Communicable Disease Control and Epidemiology, Orange County Health Care Agency

Chris Ruel, MS, Interim Manager, Research Center, Quality Management and Planning, Orange County Health Care Agency

Special thanks to:

William F. Gayk, PhD, Director, Center for Demographic Research, California State University, Fullerton

Roger Trent, PhD, Chief, Injury Surveillance and Epidemiology Unit, Department of Health Services, State of California

Lynn Walton-Haynes, DDS, MPH, Research Scientist, Injury Surveillance and Epidemiology Unit, Department of Health Services, State of California

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Introduction

Monitoring Injuries in Orange County highlights important injuries that affect residents in Orange County. This paper focuses on those injuries ranked as first and second causes of hospitalizations and deaths for each age group during 1996. Unintentional injuries (such as those caused by motor vehicle crashes, drownings, and falls) as well as intentional injuries (such as attempted and completed suicide, assault, and homicide) are analyzed. Firearms are also spotlighted as a major cause of injury-related hospitalizations and deaths. Furthermore, Orange County's success in meeting the *Healthy People 2000* objectives, established by the US Department of Health and Human Services, for injuries during 1996 is examined. A section on costs of hospitalizations due to injuries is also included. This report uses primarily 1996 data — the most recent data available when analysis began. For readers interested in additional information, detailed data is provided in the appendix for hospitalizations and deaths by age, race, and gender.

Reducing violence and injury is a major goal of the County of Orange Health Care Agency Public Health. To meet this goal the agency established an injury monitoring system for Orange County. This is the first report of that monitoring system.

This monitoring system will provide the county — its cities, organizations, and residents — with an important instrument by which to determine injury prevention objectives. This report will also serve as a baseline from which to measure rates and occurrences of injuries in Orange County in subsequent years. In addition, this report compares Orange County's rates of injury to California's rates and to *Healthy People 2000* target objectives for injury rates.

Summary

Overview:

- ◆ Injuries caused 988 deaths and 18,740 hospitalizations in Orange County during 1996.
- ◆ Orange County residents 75 and older had the highest risk of injury-related hospitalization and death.
- ◆ Of all causes of death, injury was the number one killer among 15-24 year olds.
- ◆ Motor vehicle crashes were the leading cause of injury-related deaths in 1996, followed by suicide and unintentional poisoning.
- ◆ Falls caused substantially more hospitalizations than any other injury, followed by motor vehicle crashes and suicide.

Unintentional Injuries, 1996:

- ◆ Unintentional injuries accounted for 63% of all injury-related deaths and 82% of all injury-related hospitalizations in the County.
- ◆ Drownings were responsible for more deaths in children 1-9 years old than any other injury.
- ◆ Drownings were one of only two injury categories in Orange County that did not meet the *Healthy People 2000* objective in 1996.
- ◆ Residents 75 and older have a substantially higher rate of death and hospitalization due to falls compared to all other ages.
- ◆ Orange County is behind the *Healthy People 2000* target for fall-related deaths.
- ◆ The motor vehicle occupant death rate was highest for the 15-24 year age group compared to all other age groups.
- ◆ The motor vehicle pedestrian hospitalization rate was higher for males compared to females, except in residents 65 and older.
- ◆ The risk of death for unintentional poisoning was greatest for 25-44 year olds compared to all other age groups.
- ◆ Unintentional suffocation was the leading cause of injury-related death for children under 1 year old.

Intentional Injuries, 1996:

- ◆ Suicide was the leading cause of injury-related death for 45-74 year olds.
- ◆ Males 65 and older had the highest risk of suicide death.

- ◆ Hospitalizations due to suicide attempts occurred most frequently in the 15-19 year age group.
- ◆ The homicide death rate was almost five times greater in males compared to females.
- ◆ Residents 15-24 years old were at highest risk for hospitalization and for death due to assault.

Firearms, 1996:

- ◆ Firearms were responsible for 20% of all injury-related deaths.
- ◆ Firearm assaults were responsible for substantially more hospitalizations than any other firearm-related injury.

Healthy People 2000:

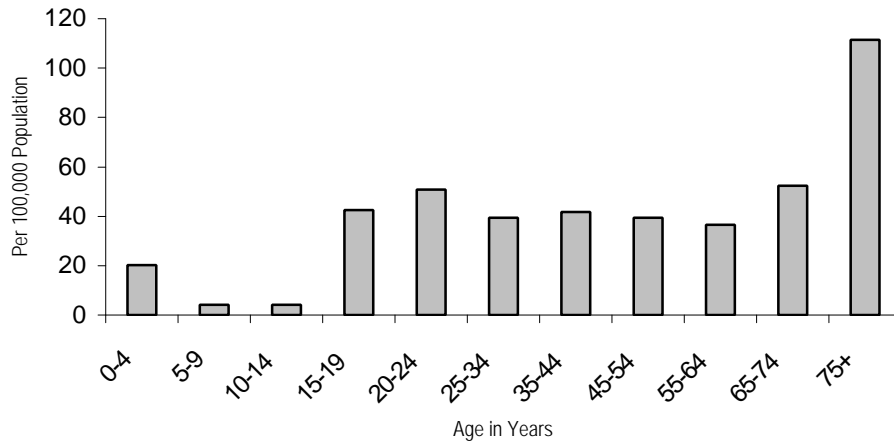
- ◆ Orange County met or exceeded most of the *Healthy People 2000* target rates for injury deaths and hospitalizations during 1996.
- ◆ Orange County is behind the *Healthy People 2000* target for drowning-related deaths and fall-related deaths.

Hospitalization Costs, 1996:

- ◆ When compared to all injuries, attempted suicide by “other means” was responsible for the longest mean length of stay in the hospital, followed by suicide by firearms.
- ◆ Firearms were directly responsible for the greatest hospitalization per day cost (assault) and the third greatest hospitalization per day cost (unintentional injury).

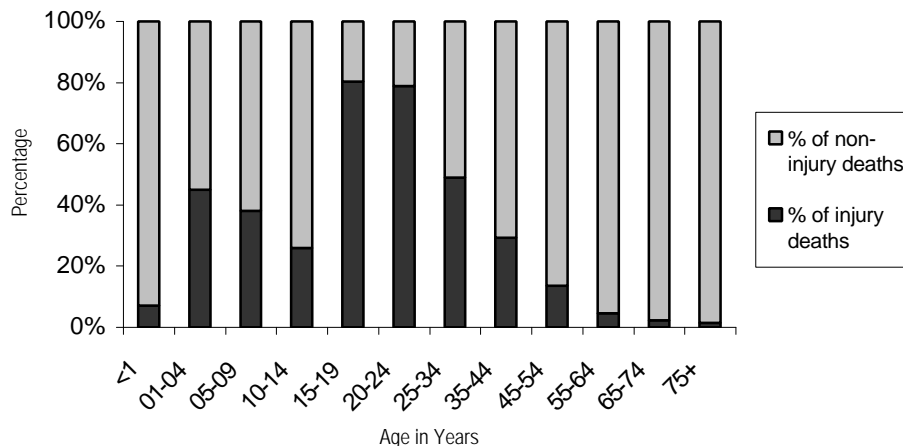
Overview of Injuries in Orange County 1996

Injury-Related Deaths



Death Rates for Injuries per 100,000 Population for Orange County Residents by Age, 1996

- ◆ Orange County residents 75 and older had the highest risk of an injury-related death.
- ◆ Falls accounted for 51% of all injury-related deaths for the 75 and older age group.



Percentage of all Injury-Related Deaths Compared to Non-Injury-Related Deaths for Orange County Residents by Age, 1996

- ◆ Of all causes of death in Orange County, injuries were responsible for approximately 80% in the 15-24 age group.
- ◆ Motor vehicle crashes and homicide caused 64% of injury-related deaths in the 15-24 age group.

From Which Injuries Did Orange County Residents Die in 1996?

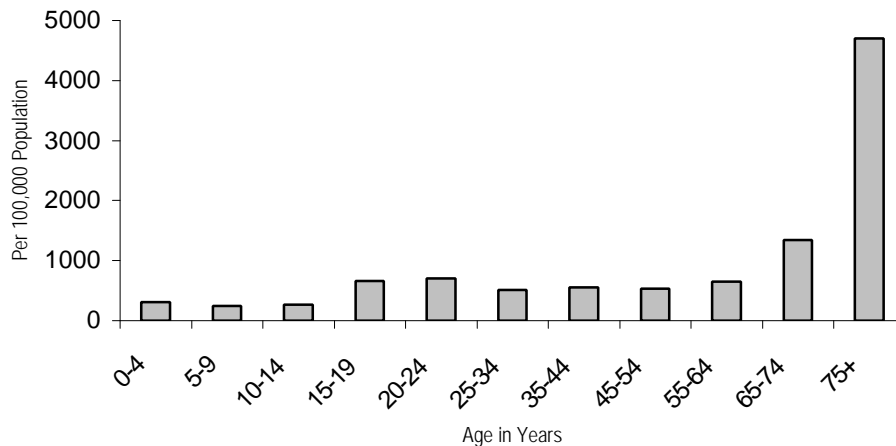
rank	Under 1 year(#)	1-4 years(#)	5-9 years(#)
1	Suffocation(unintentional) (6)	Drowning/Submersion (8) Homicide (8) Motor Vehicle Traffic (8)	Drowning/Submersion (5)
2	Homicide (3) Undetermined Intent (3)	Suffocation(unintentional) (4)	Homicide (1) Late Effects (1) Motor Vehicle Traffic (1)
3	Motor Vehicle Traffic (2)	Falls (1) Pedestrian, other (1) Undetermined Intent (1)	
4	Drowning/Submersion (1)		

rank	10-14 years(#)	15-19 years(#)	20-24 years(#)
1	Motor Vehicle Traffic (3)	Motor Vehicle Traffic (25)	Motor Vehicle Traffic (32)
2	Drowning/Submersion (1) Homicide (1) Suffocation (1) Transport, other (1)	Homicide (24)	Homicide (23)
3		Suicide (12)	Suicide (22)
4		Undetermined Intent (2)	Poisoning(unintentional) (9)
5		Drowning/Submersion (1) Fire/Burn (1) Firearms(unintentional) (1) Legal Intervention/War (1) Machinery in Operation (1) Suffocation(unintentional) (1)	Drowning/Submersion (2) Firearms(unintentional) (2)

rank	25-34 years(#)	35-44years(#)	45-54 years(#)
1	Poisoning(unintentional) (54)	Poisoning(unintentional) (70)	Suicide (39)
2	Motor Vehicle Traffic (45)	Suicide (39)	Poisoning(unintentional) (38)
3	Suicide (37)	Motor Vehicle Traffic (37)	Motor Vehicle Traffic (27)
4	Homicide (31)	Homicide (18)	Homicide (7)
5	Drowning/Submersion (7)	Drowning/Submersion (4)	Falls (5)

rank	55-64 years(#)	65-74 years(#)	75+ years(#)
1	Suicide (25)	Suicide (21)	Falls (60)
2	Motor Vehicle Traffic (15)	Falls (20)	Motor Vehicle Traffic (17)
3	Falls (11)	Motor Vehicle Traffic (12)	Suicide (16)
4	Homicide (5)	Suffocation(unintentional) (5)	Suffocation(unintentional) (11)
5	Poisoning(unintentional) (4)	Homicide (3)	Drowning/Submersion (5)

Injury-Related Hospitalizations



- ◆ Orange County residents 75 and older had the highest risk of an injury-related hospitalization.
- ◆ Falls accounted for 80% of all injury-related hospitalizations for ages 75 and older.

Hospitalization Rates for Injuries per 100,000 Population for Orange County Residents by Age Group, 1996



Which Injuries Caused Orange County Residents to be Hospitalized in 1996?

rank	Under 1 year(#)	1-4 years(#)	5-9 years(#)
1	Falls (36)	Falls (205)	Falls (184)
2	Unintentional, other (21)	Motor Vehicle Traffic (89)	Motor Vehicle Traffic (103)
3	Fire/Burn (12)	Poisoning(unintentional) (68)	Pedal Cyclist, other (27)
4	Assault (11)	Fire/Burn (56)	Struck by Object(unintentional) (24)
5	Poisoning(unintentional) (10)	Unintentional, other (38)	Unintentional, other (22)

rank	10-14 years(#)	15-19 years(#)	20-24 years(#)
1	Falls (149)	Motor Vehicle Traffic (269)	Motor Vehicle Traffic (358)
2	Motor Vehicle Traffic (81)	Assault (171)	Assault (191)
3	Pedal Cyclist, other (38)	Attempted Suicide (166)	Attempted Suicide (160)
4	Attempted Suicide (36)	Falls (148)	Falls (140)
5	Struck by Object(unintentional) (35)	Struck by Object(unintentional) (66)	Late Effects (80)

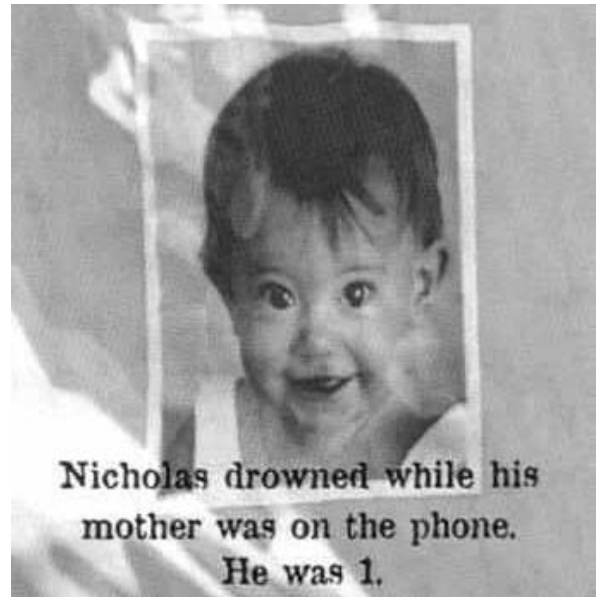
rank	25-34 years(#)	35-44 years(#)	45-54 years(#)
1	Motor Vehicle Traffic (605)	Falls (464)	Falls (473)
2	Falls (376)	Motor Vehicle Traffic (447)	Motor Vehicle Traffic (305)
3	Attempted Suicide (288)	Attempted Suicide (321)	Late Effects (158)
4	Assault (238)	Late Effects (245)	Attempted Suicide (146)
5	Late Effects (199)	Poisoning(unintentional) (168)	Poisoning(unintentional) (116)

rank	55-64 years(#)	65-74 years(#)	75+ years(#)
1	Falls (524)	Falls (1,089)	Falls (3,990)
2	Motor Vehicle Traffic (194)	Motor Vehicle Traffic (180)	Unintentional, other (263)
3	Late Effects (97)	Unintentional, other (117)	Motor Vehicle Traffic (176)
4	Unintentional, other (68)	Late Effects (110)	Late Effects (147)
5	Attempted Suicide (61)	Overexertion (66)	Poisoning(unintentional) (81)

Unintentional Injuries 1996

Childhood Drownings

The majority of children who drown in swimming pools were last seen in the home, had been missing from sight for less than 5 minutes, and were in the care of a responsible adult at the time of the drowning.



Types of Fatal Drownings for Orange County Children 1-9 years, 1996

Description	1-4 yrs	5-9 yrs
in bathtub	0	1
in swimming pool	7	4
unspecified	1	0
Total	8	5

- ◆ In 1996, drowning was the number one cause of injury-related deaths for Orange County children 1-9 years old.
- ◆ Drownings in the 1-4 and 5-9 age groups occurred most often in swimming pools.

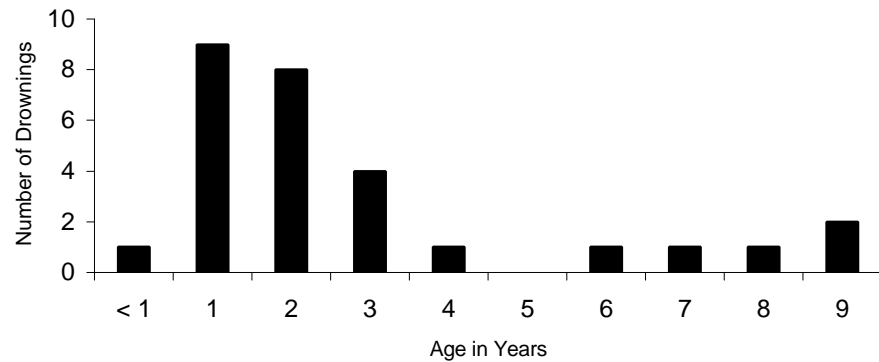
Types of Hospitalized Near-Drownings for Orange County Children 1-9 years, 1996

Description	1-4 yrs	5-9 yrs
while engaged in sport	0	3
while swimming or diving	1	1
in bathtub	1	0
in swimming pool	22	2
unspecified	0	0
Total	24	6

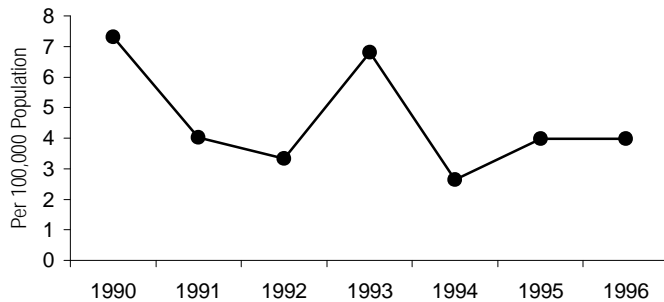
- ◆ For every fatal drowning among children 1-9 years old, there were 2.3 hospitalized near-drownings.
- ◆ Hospitalized near-drownings occurred most often in children ages 1-4.

Childhood Drownings

- ◆ For 1994-1996, drownings occurred most often among 1 and 2 year olds.



Number of Fatal Drownings for Orange County Residents by Age, 1994-1996



- ◆ The drowning death rate for children ages 0-4 appears to be fluctuating with a peak during 1993.

Death Rates for Drownings per 100,000 Population for Orange County Residents Ages 0-4, 1990-1996

How Did Orange County's Drownings among Children 4 and Younger Compare with California and *Healthy People 2000* in 1996?

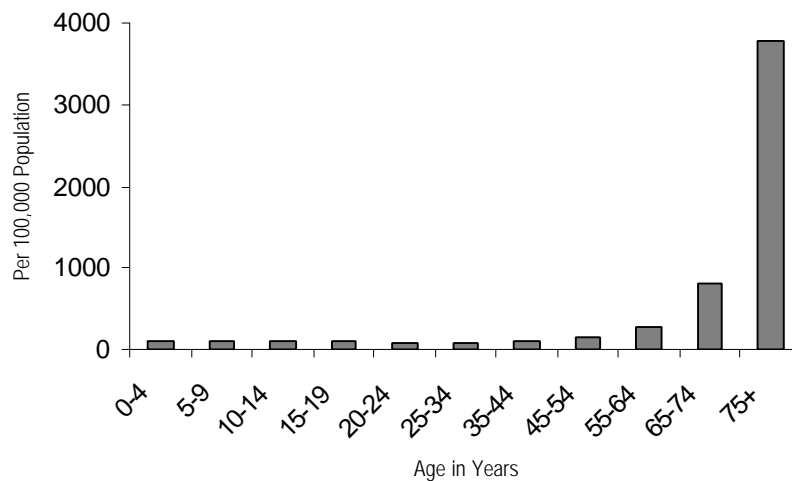
Orange County	California	Healthy People 2000
4.0 per 100,000 population	3.3 per 100,000 population	2.3 per 100,000 population

Falls

In Orange County during 1996, falls were responsible for more hospitalizations than any other injury.

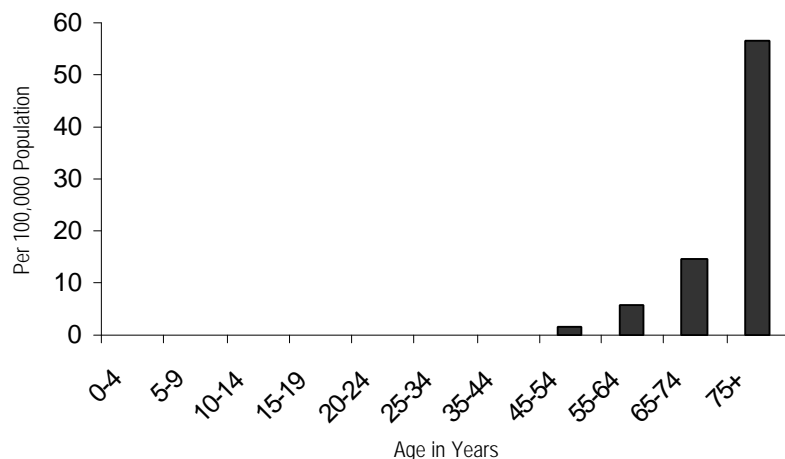


- ◆ Forty-two percent of all hospitalized injuries were due to falls.
- ◆ Falls were the leading cause of injury-related hospitalizations for ages 0-14 as well as 35 and older.
- ◆ The hospitalization rate for falls was 29.6 per 100,000 population; however, for residents 75 and older, the rate soared to 376.9.



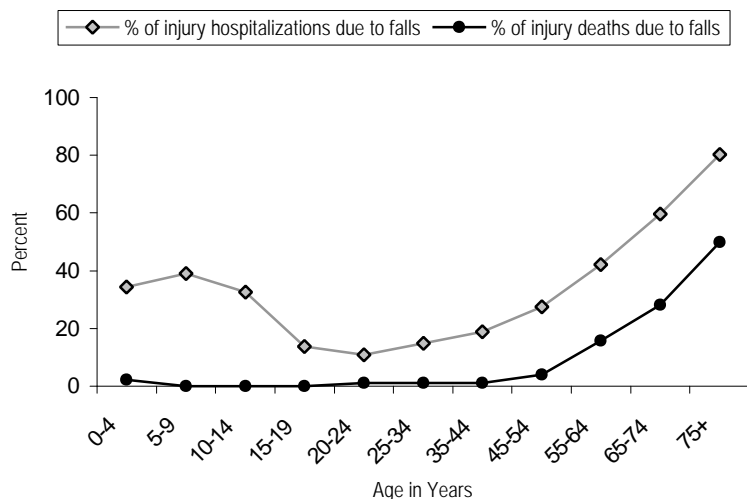
Hospitalization Rates for Falls per 100,000 Population for Orange County Residents by Age, 1996

Falls



- ◆ Persons 75 years and older were at highest risk for a fall-related death compared to all other age groups.

Death Rates for Falls per 100,000 Population for Orange County Residents by Age, 1996



- ◆ Ninety-one of the 102 deaths due to falls occurred among residents 55 and older, with 60 fall-related deaths in the 75 and older age group.
- ◆ While only resulting in one death for ages 0-14, falls represented approximately 40% of all injury-related hospitalizations in this age group.

Percentage of All Injury-Related Hospitalizations Represented by Falls as well as the Percentage of All Injury-Related Deaths Represented by Falls by Age, 1996

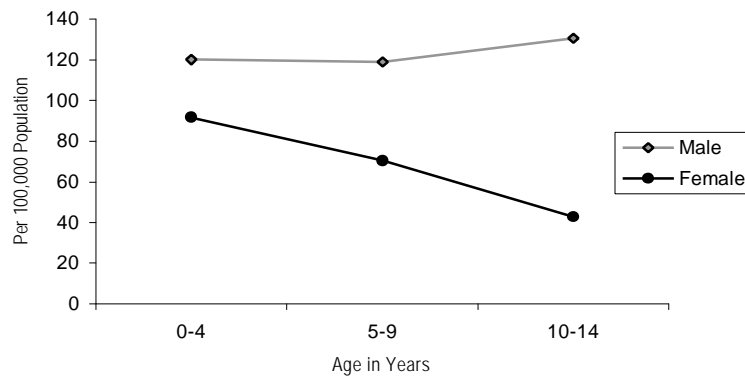
Falls, Ages 0-14

Types of Hospitalized Falls for Orange County Children 0-14 years, 1996

Description	< 1 yr	1-4 yrs	5-9 yrs	10-14 yrs	Total
other fall from one level to another	8	41	36	27	112
fall on same level from slipping, tripping, or stumbling	5	23	32	42	102
fall from playground equipment	0	23	49	8	80
fall from or out of building or other structure	0	29	12	7	48
fall from bed	4	17	6	0	27
fall from chair	4	17	4	0	25
fall from other furniture	1	14	2	1	18
fall on same level from collision, pushing, or shoving, by or with other person- in sports	0	0	2	14	16
other stairs or steps	4	10	0	1	15
other and unspecified fall	10	31	41	49	131
Total	36	205	184	149	574

- ♦ Falling from one level to another was the most common type of fall-related hospitalization in the 1-4 age group.
- ♦ Falling from playground equipment was the leading type of fall for 5-9 year olds.
- ♦ Falling on the same level was the leading cause of fall-related hospitalizations in the 10-14 age group.

- ♦ Males 14 and younger consistently incurred more hospitalizations related to falls than females.



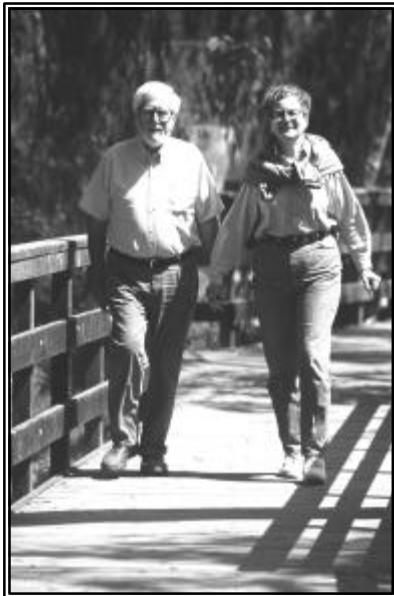
*Hospitalization Rates for Falls per 100,000 Population for
Orange County Residents 0-14 Years by Gender, 1996*

Falls, Ages 55+

- ◆ For residents 55 and older, falling on the same level from slipping, tripping or stumbling was the leading cause of fall-related hospitalizations.
- ◆ In the 75 and older age group, falling from the bed was the second leading cause of hospitalization due to falls.

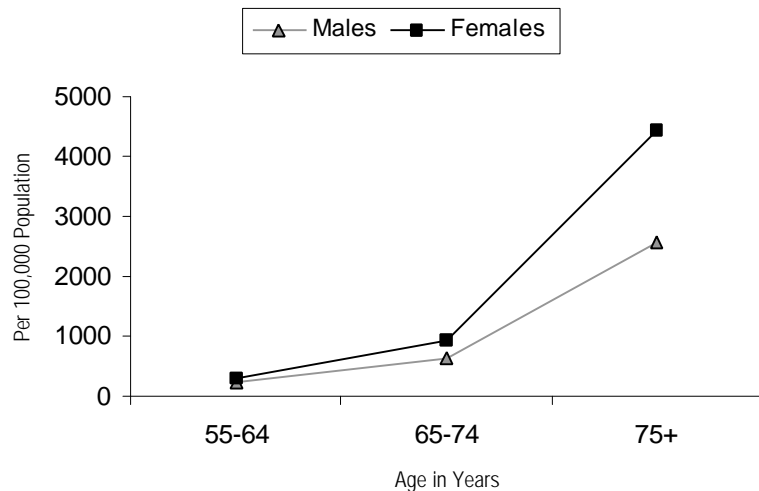
Types of Hospitalized Falls for Orange County Residents 55 Years and Older, 1996

Description	55-64 yrs	65-74 yrs	75+ yrs	Total
other stairs or steps	29	72	106	207
fall from ladder	42	36	22	100
fall from chair	10	16	82	108
fall from wheelchair	2	14	41	57
fall from bed	13	25	164	202
other fall from one level to another	33	27	53	113
fall on same level from slipping, tripping, or stumbling	184	413	1,550	2,147
other and unspecified fall	211	486	1,972	2,669
Total	524	1,089	3,990	5,603



Regular physical activity can increase strength and aerobic capacity as well as decrease fear of falling in older adults

Falls, Ages 55+



- ◆ Orange County residents 75 and older were at greatest risk to be hospitalized due to a fall.
- ◆ In the 75 and older age group, women had a hospitalization rate for falls almost twice that of men.

Hospitalization Rates for Falls per 100,000 Population for Orange County Residents 55+ Years by Gender, 1996

How Did Orange County's Hospitalized Falls Compare with California for Residents 75 and Older in 1996?

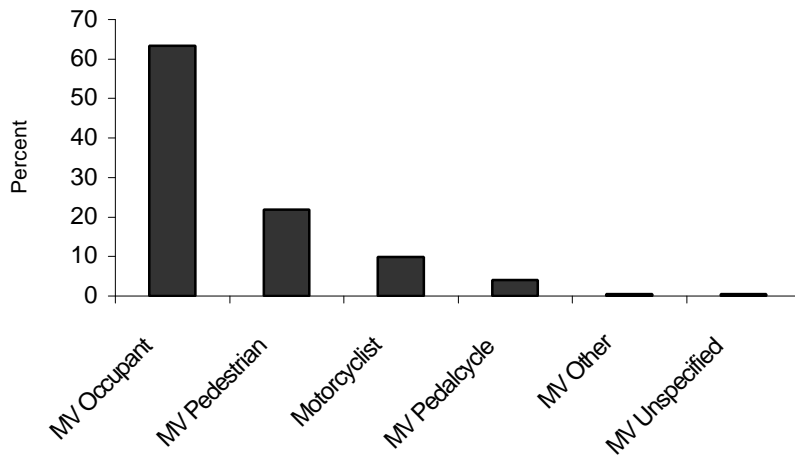
Orange County	California
3769.5 per 100,000 population	2852.1 per 100,000 population

How Did Orange County's Deaths from Falls Compare with California and *Healthy People 2000* in 1996?

Falls (per 100,000)	Orange County 1996	California 1996	2000 Target
Fall deaths	2.8	2.0	2.3
65-84 deaths	24.2	14.2	14.4
85+ deaths	125.9	90.5	105.0

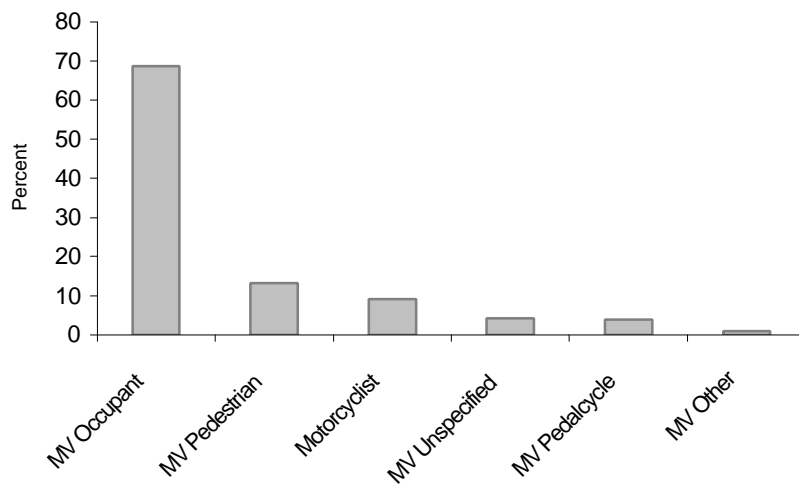
Motor Vehicle Traffic

- ◆ Motor vehicle occupants and pedestrians comprised the greatest proportion of all motor vehicle traffic deaths.



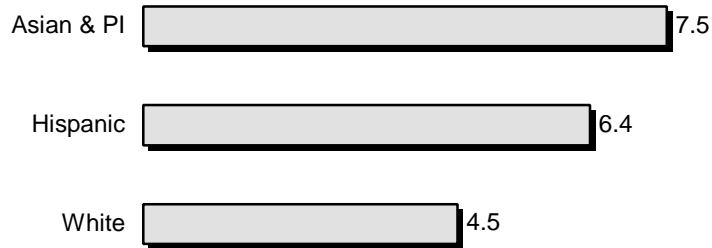
Percentage of Each Motor Vehicle Traffic Category for Deaths for Orange County Residents, 1996

- ◆ Injuries involving occupants and pedestrians were responsible for the greatest percentage of motor vehicle traffic hospitalizations.



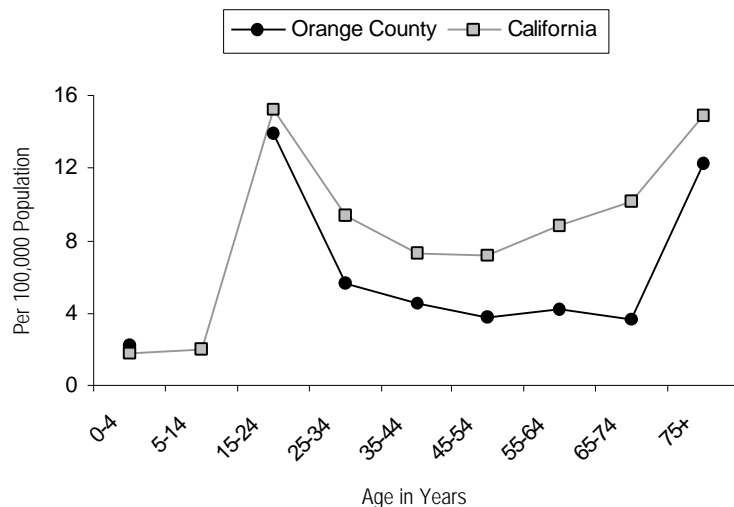
Percentage of Each Motor Vehicle Traffic Category for Hospitalizations for Orange County Residents, 1996

Motor Vehicle Occupant



- ◆ Asian and Pacific Islanders had the highest death rate for motor vehicle occupants compared to other races.

Death Rates for Motor Vehicle Occupants per 100,000 Population for Orange County Residents by Race, 1996

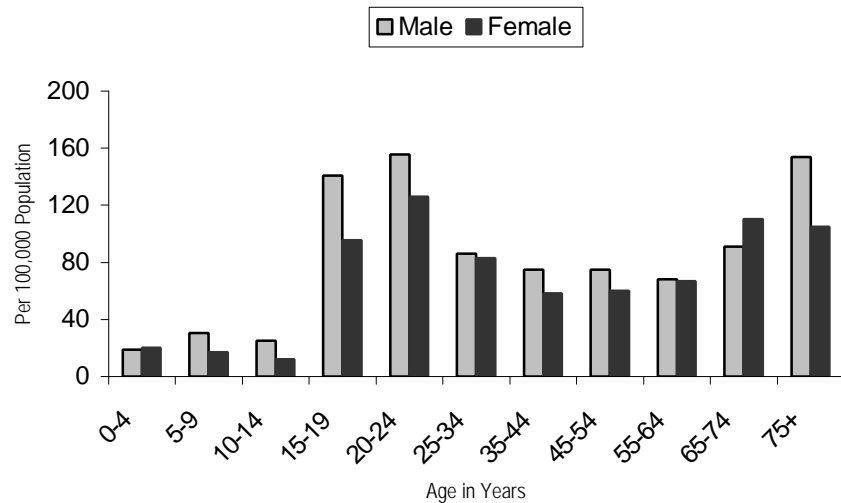


- ◆ In Orange County, motor vehicle occupant deaths were the leading cause of injury-related deaths for ages 15-24.
- ◆ California had a higher rate of motor vehicle occupant deaths compared to Orange County for every age group except 0-4.

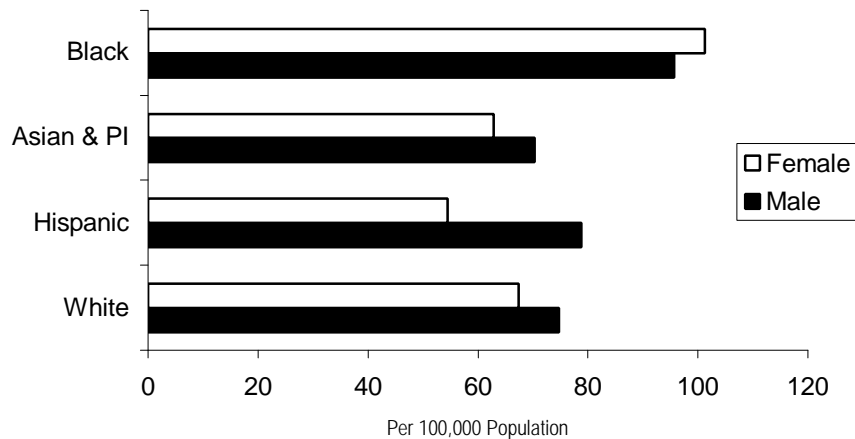
Death Rates for Motor Vehicle Occupants per 100,000 Population for Orange County and California Residents by Age, 1996

Motor Vehicle Occupant

- ◆ Males 15-24 and 75 and older had the highest rates of hospitalizations due to motor vehicle crashes.



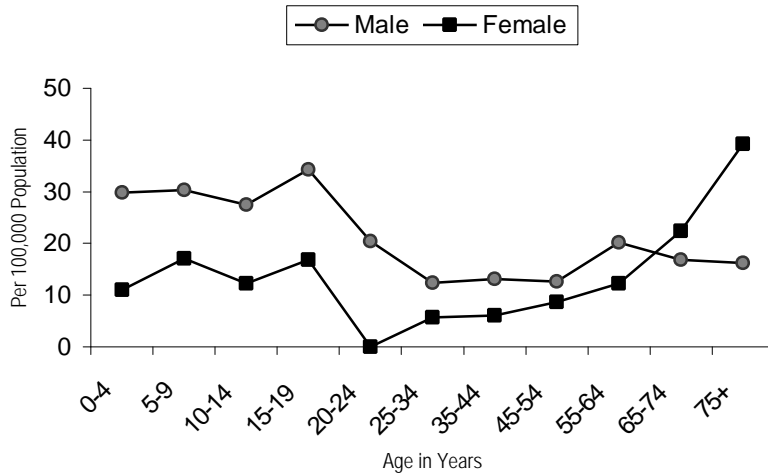
Hospitalization Rates for Motor Vehicle Occupants per 100,000 Population for Orange County Residents by Age and Gender, 1996



- ◆ Blacks had the highest rate of motor vehicle occupant hospitalizations compared to all other races.

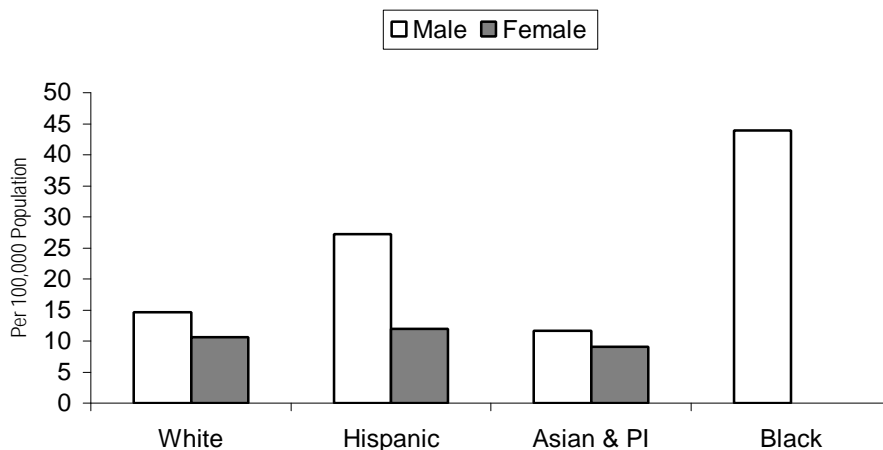
Hospitalization Rates for Motor Vehicle Occupants per 100,000 Population for Orange County Residents by Race and Gender, 1996

Motor Vehicle Pedestrian



- ◆ The motor vehicle pedestrian hospitalization rate was higher for males compared to females in every age category except 65 and older.

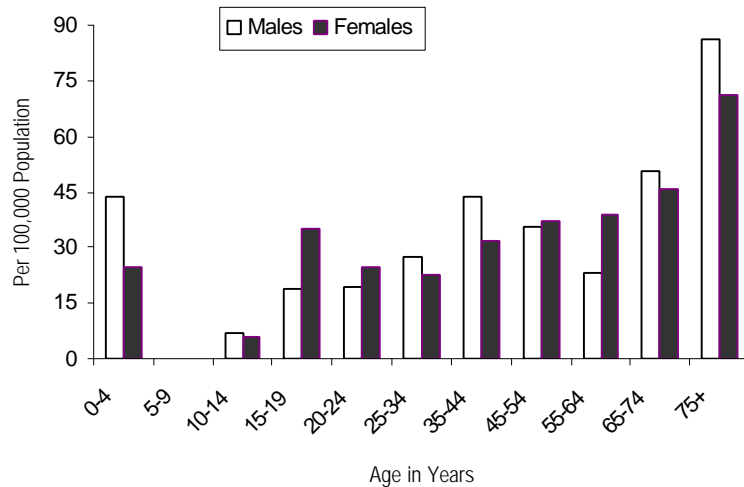
Hospitalization Rates for Motor Vehicle Pedestrian per 100,000 Population for Orange County Residents by Age and Gender, 1996



- ◆ Black males had a much higher risk of being hospitalized due to a pedestrian involvement with a motor vehicle compared to other races.

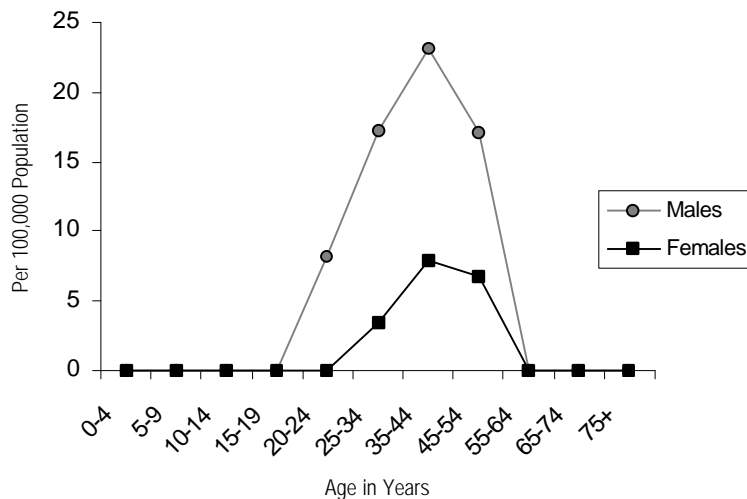
Hospitalization Rates for Motor Vehicle Pedestrian per 100,000 Population for Orange County Residents by Race, 1996

Unintentional Poisoning



- ◆ Hospitalizations for unintentional poisonings occurred most frequently in the 75 and older age group.

Hospitalization Rates for Unintentional Poisoning per 100,000 Population for Orange County Residents by Age and Gender, 1996



- ◆ For the 25-44 age group, unintentional poisoning was the leading cause of injury-related deaths.
- ◆ In the 35-44 age group, the death rate for males was three times higher than for females.

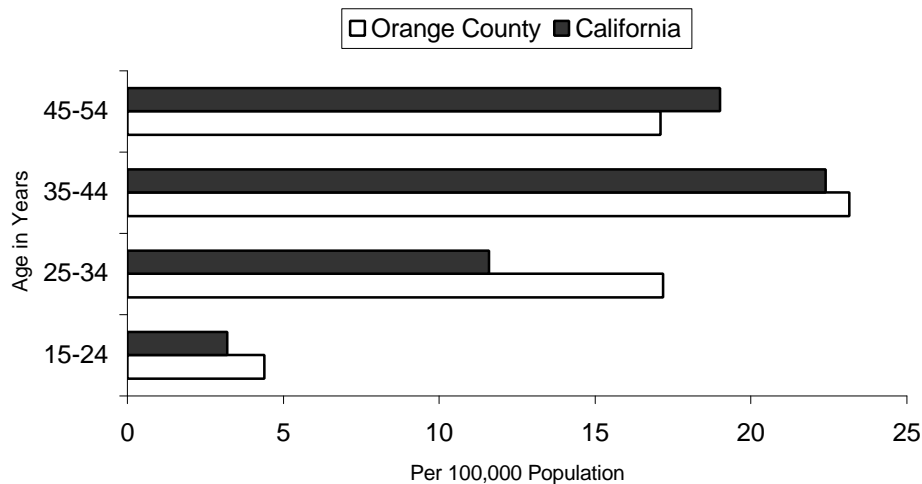
Death Rates for Unintentional Poisoning per 100,000 Population for Orange County Residents by Age and Gender, 1996

Unintentional Poisoning

Types of Poisoning Resulting in Death for Orange County Residents, 1996

Type of Poisoning	Males	Females
Heroin	60	8
Other specified drugs (central appetite depressants)	50	23
Other	26	12
Total	136	43

- ◆ Heroin use was responsible for 44% of unintentional poisoning deaths among males.
- ◆ For females, central appetite depressants represented 53% of unintentional poisoning deaths.



- ◆ Compared to California males, Orange County males experienced a higher death rate due to unintentional poisoning in the 15-44 age groups.

Death Rates for Unintentional Poisoning per 100,000 Population for Orange County and California Male Residents by Age, 1996

Unintentional Suffocation, Ages 0-4

Types of Suffocation Resulting in Death for Orange County Children, 1996

Description	< 1 yr	1-4 yrs
inhalation and ingestion of food	3	3
inhalation and ingestion of other object	1	1
unspecified means	2	0
Total	6	4

- ◆ Unintentional suffocation was the leading cause of injury-related deaths for children under 1 year old and the 2nd leading cause for children 1-4 years old.

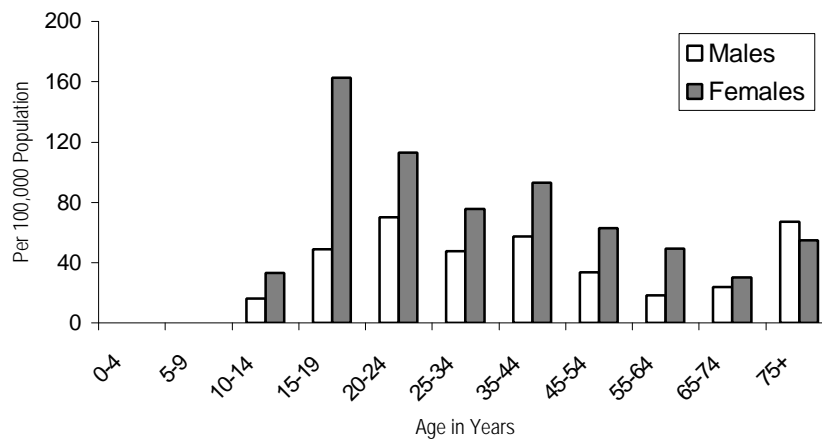
Children are at risk from choking on small, round foods such as hot dogs, candies, nuts, grapes, carrots, and popcorn.



Intentional Injuries 1996

Suicide

- ◆ The rate of attempted suicide hospitalizations was greatest among females ages 15-19. This rate was three times greater than the rate for males in the same age group.
- ◆ Orange County females 15-19 had a higher rate of hospitalization due to suicide attempts (162.6 per 100,000 population) compared to California females in the same age group (157.6 per 100,000 population).



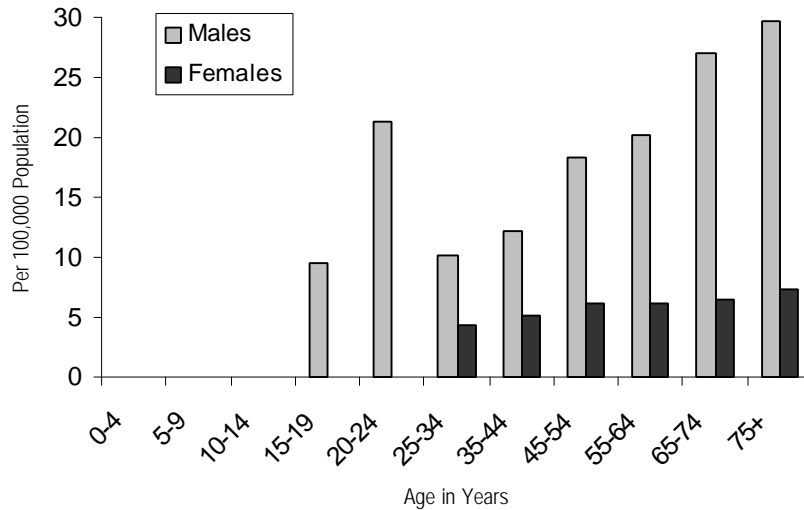
Hospitalization Rates for Attempted Suicide per 100,000 Population for Orange County Residents by Age and Gender, 1996

Method of Attempted Suicide for Hospitalized Males and Females Residing in Orange County, 1996

Method of Attempted Suicide	Males	Females	All
poisoning by solid or liquid substances	334	711	1,045
poisoning by gases in domestic use	0	0	0
poisoning by other gases and vapors	2	1	3
hanging	6	4	10
submersion	1	1	2
firearms	9	3	12
cutting and piercing instruments	65	64	129
jumping from high place	9	4	13
other and unspecified means	29	27	56
late effects of self-inflicted injury	18	6	24
Total	473	821	1,294

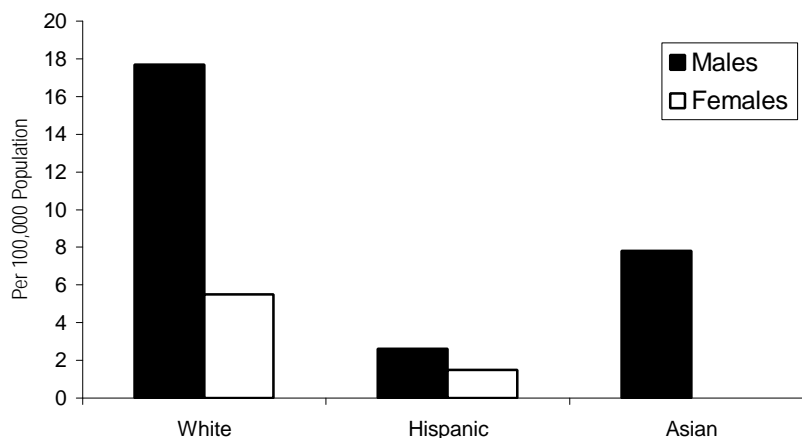
- ◆ Attempted suicide from poisoning by solid or liquid substances represented 81% of all suicide hospitalizations.

Suicide



- ◆ Suicide was the leading cause of injury-related death for ages 45-74.
- ◆ Overall, the male suicide death rate was three times higher than females.
- ◆ Males 65 and older had the greatest risk for suicide death.

Death Rates for Suicide per 100,000 Population for Orange County Residents by Age and Gender, 1996



- ◆ White males had a suicide death rate 6.8 times greater than Hispanic males and 2.3 times greater than Asian males.

Death Rates for Suicide per 100,000 Population for Orange County Residents by Race and Gender, 1996

Suicide

- ◆ Firearms were used for almost half of all suicide deaths.
- ◆ For males, firearms were the most frequent method used.
- ◆ Poisoning by solid or liquid substances was the method most favored by females.

**Method of Fatal Suicide for Males and Females
Residing in Orange County, 1996**

Method of Suicide	Males	Females	All
<i>poisoning by solid or liquid substances</i>	19	23	42
poisoning by gases in domestic use	0	1	1
poisoning by other gases and vapors	9	0	9
hanging	34	10	44
submersion	1	1	2
<i>firearms</i>	85	9	94
cutting and piercing instruments	5	4	9
jumping from high place	5	2	7
other and unspecified means	1	2	3
Total	159	52	211

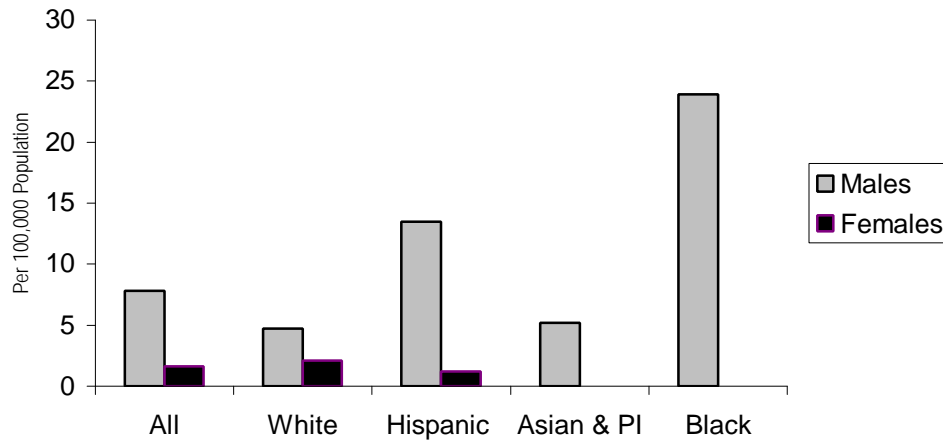
- ◆ In 1996, the Orange County suicide death rate was lower than the *Healthy People 2000* target of 10.5 per 100,000, as well *Healthy People 2000* targets for all three high-risk populations.
- ◆ Compared to California, Orange County experienced a lower overall death rate from suicide, as well as a lower rate for males 65 and older.

**Orange County Death Rate Comparisons with California
and *Healthy People 2000*, 1996**

Suicide (per 100,000)	Orange County 1996	California 1996	2000 Target
Youth 15-19	7.4	*	8.2
Males 20-34	13.1	*	21.4
White Males 65 and older	32.9	47.6	39.2
Total Suicides	7.8	9.8	10.5

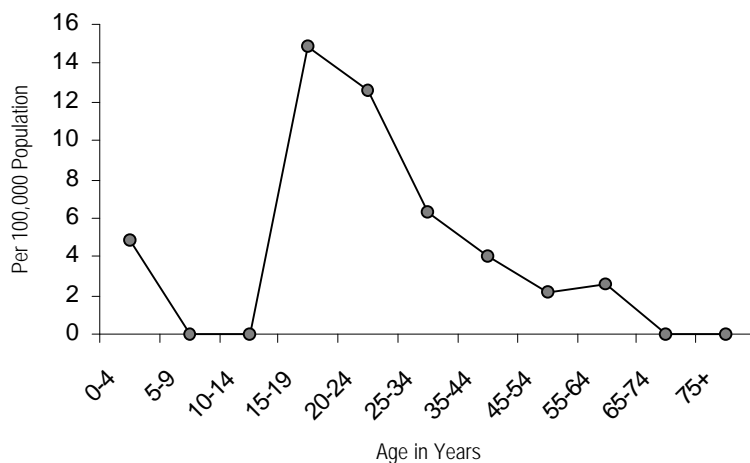
*data unavailable, per 100,000 population, age-adjusted 1940 US population

Homicide



Death Rates for Homicide per 100,000 Population for Orange County Residents by Race and Gender, 1996

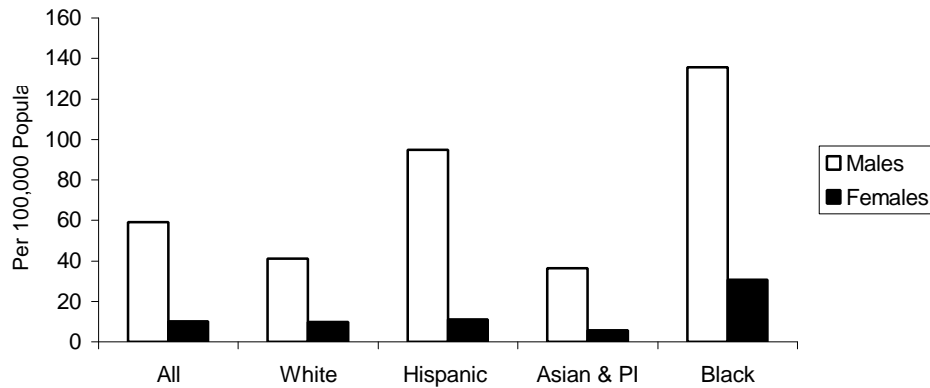
- ◆ The male homicide death rate was almost five times greater than the female death rate.
- ◆ Black males experienced the highest death rate due to homicide.



Death Rates for Homicide per 100,000 Population for Orange County Residents by Age and Gender, 1996

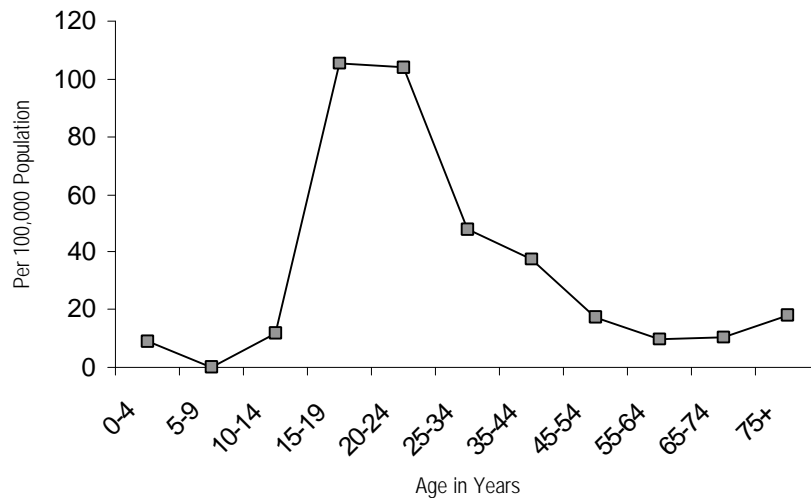
- ◆ Homicide was one of the leading causes of injury-related deaths for children 1-4.
- ◆ Ages 15-24 were at highest risk for death by assault with a rate of 13.6 per 100,000 population. California had a higher rate of 25.0 for the same age group.

Assault



Hospitalization Rates for Assaults per 100,000 Population for Orange County Residents by Race and Gender, 1996

- ◆ Black males had the highest risk of being hospitalized due to assault, followed by Hispanic males.
- ◆ Females had much lower hospitalization rates than males.

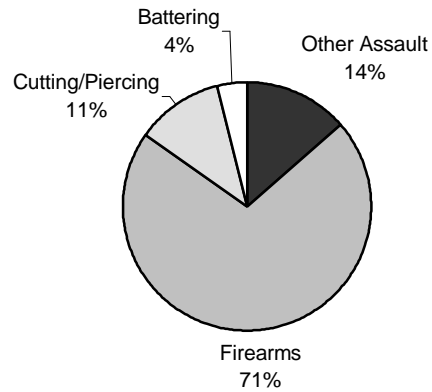


Hospitalization Rates for Assaults per 100,000 Population for Orange County Residents by Age and Gender, 1996

- ◆ Orange County had a rate for hospitalized assaults of 104.9 per 100,000, which was lower than California's rate of 135.5.
- ◆ Hospitalization rates due to assault were highest in the 15-24 age group.

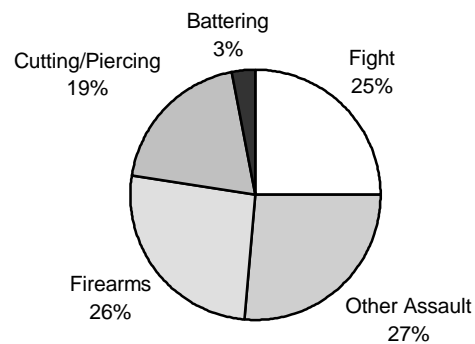
Homicide/Assault

- ◆ Overwhelmingly, firearms were used in the majority of homicides.



Percentage of Each Method Used for Homicide for Orange County Residents, 1996

- ◆ Hospitalizations due to assaults were caused by a variety of methods.



Percentage of Each Method Used for Hospitalized Assaults for Orange County Residents, 1996

Firearms

1996

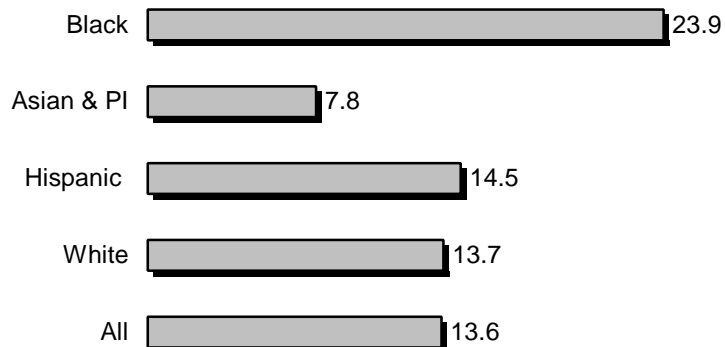
Firearms

- ◆ For males, firearm assaults resulted in substantially more hospitalizations than other firearm-related injuries.
- ◆ Firearms were responsible for 20% of all injury-related deaths.
- ◆ The rate of firearm-related deaths for Orange County residents was much lower (7.9 per 100,000 population) than the rate for California (13.1 per 100,000 population).

Type of Injuries Caused by Firearms Resulting in Death and Hospitalization for Orange County Residents, 1996

Type of Injury	Males		Females	
	# of Hospitalizations	# of Deaths	# of Hospitalizations	# of Deaths
Unintentional	44	5	1	0
Attempted Suicide/Suicide	8	85	3	9
Assault/Homicide	229	80	12	9
Undetermined	5	2	0	0
Other*	8	9	1	0
Total	294	181	17	18

*includes legal intervention and operations of war



- ◆ Black males had a higher death rate due to firearms than males of other races.

Death Rates due to Firearms per 100,000 Population for Male Orange County Residents by Race, 1996

Healthy People 2000

Healthy People 2000

How Well Did Orange County Do in Meeting the *Healthy People 2000* Health Status Objectives?

Health Status Objectives	2000 Target	1996 Orange County
Unintentional Injuries-deaths	29.3	21.5
Black males	51.9	35.4
White males	42.9	31.1
Unintentional Injuries-hospitalization	754.0	532.7
Suicide deaths	10.5	7.8
Suicide youth 15-19	8.2	7.4
Suicide males 20-34	21.4	13.1
Suicide white males 65+	39.2	32.9
Homicide	7.2	5.1
Hispanic men 15-34	42.5	24.4
Firearm-related deaths	11.6	7.9
Fall deaths	2.3	2.8*
65-84 deaths	14.4	24.2*
85+ deaths	105.0	125.9*
Drowning deaths	1.3	1.4*
Children 4 and younger	2.3	4.0*
Motor vehicle pedestrian deaths	2.7	1.8
Motorcyclist deaths	1.5	0.8
Deaths by motor vehicle crashes	16.8	8.8
Children 14 and younger deaths	5.5	2.6
Youth 15-24	33.0	16.5

Age-adjusted to US 1940 population, per 100,000 population, *Has not meet the HP2000 goal

- ◆ In general, Orange County met the *Healthy People 2000* goals for nearly all injury targets during 1996.
- ◆ The overall drowning rate and the drowning rate for ages 4 and younger did not meet the *Healthy People 2000* target rates.
- ◆ Orange County did not meet the *Healthy People 2000* target for all fall-related deaths, as well as fall-related deaths in the 65-84 and 85 and older age groups.

Hospitalization Cost and Length of Stay 1996

Hospitalization Cost

- ◆ Firearm assaults were responsible for the greatest per day hospitalization cost, followed by “other types of motor vehicle injuries”.
- ◆ Firearms were directly responsible for the greatest hospitalization per day cost (assault) and the third greatest hospitalization per day cost (unintentional injury).



Hospitalizations for Orange County Residents Costing more than \$5,000 per day, 1996

Hospitalization Length of Stay

- ◆ Attempted suicide by “other” means was responsible for the longest mean length of stay compared to all other injury-related hospitalizations during 1996.
- ◆ Attempted suicide by firearms had the longest median length of stay compared to all other injury-related hospitalizations.

**Injury-Related Hospitalizations Resulting in a Mean
Length of Stay Greater than One Week, 1996**

Rank	Reason for Hospitalization	mean length of stay (days)	minimum length of stay (days)	maximum length of stay (days)	median length of stay (days)	# of hospital stays	total length of stay (days)
1	Suicide(other)	15.9	1	148	8	72	1,148
2	Firearms(suicide)	14.7	2	81	9	11	162
3	Battering	9.3	1	51	6	29	270
4	Late Effects	9.1	1	672	5	1,135	10,353
5	Hot Object/Substance(unintentional)	8.8	1	113	7	180	1,577
6	Fire/Flames(unintentional)	8.6	1	82	4	75	643
7	Motor Vehicle, Unspecified	8.1	1	149	3	119	960
8	Firearms(unintentional)	7.8	1	58	4	45	350
9	Motor Vehicle, Other	7.6	2	54	3	24	182
10	Legal Intervention/War	7.6	1	39	3	20	151
11	Motor Vehicle, Pedestrian	7.5	1	90	4	406	3,054
12	Suffocation(unintentional)	7.5	1	69	4	77	577
13	Cut/Pierce(suicide)	7.4	1	47	5	129	956
14	Unintentional,other	7.2	1	324	4	1,032	7,391

Appendix A

Data Set Information

Data Set Information

The following five data sets were used for this report:

1. County of Orange, Health Care Agency, 1990-1996 Death Files
2. California Office of Statewide Health Planning and Development (OSHPD) Hospital Discharge Data set
3. The Center for Demographic Research, California State University, Fullerton, Population Estimates
4. California Department of Health Services, Death Records, 1996
5. Department of Finance, 1/98 Population Estimates

County of Orange, Health Care Agency, 1990-1996 Death Files

- ◆ The County of Orange, Health Care Agency, 1990-1996 Death Files were used for all Orange County death calculations in this report. The data is collected from death certificates. This data set was used to describe persons who died as a result of an injury. Injury-related deaths are determined by death certificates, which include an external cause of injury (E-Code) as the underlying cause of death.
- ◆ The injury categories were provided by Epidemiology and Prevention for Injury Control (EPIC), California Department of Health Services, and are based on the recently proposed framework for presenting injury data (CDC, MMWR 1997; 46(No.RR-14)).

Exclusions

- ◆ Non-Orange County residents
- ◆ Injury deaths whose origins are iatrogenic (post-operative complications and adverse effects of drugs, medicinal, and biological substances (E870.0-E879.0,E930.0-E949.9))

California Office of Statewide Health Planning and Development (OSHPD) 1996 Hospital Discharge Dataset

- ◆ The California Office of Statewide Health Planning and Development (OSHPD) 1996 Hospital Discharge Data Set was used for all Orange County and California hospitalization calculations in this report. This data set contains information on patients discharged from all non-federal, acute care hospitals in California. This data set was used to describe persons who are hospitalized as a result of an injury (that is, whose discharge summary includes an external cause of injury (E-code)). California hospital discharge data was determined using the Hospital Injury Surveillance System (HISS), provided by Epidemiology and Prevention for Injury Control (EPIC), California Department of Health Services.

- ◆ Cases represent the first hospitalization for the injury. Repeat visits for the same injury are not included. Therefore, there are no duplications with the exception of a person who may have had two separate injuries in the same year.
- ◆ The injury categories were provided by Epidemiology and Prevention for Injury Control (EPIC), California Department of Health Services, and are based on the recently proposed framework for presenting injury data (CDC, MMWR 1997; 46(No.RR-14)).

Exclusions

- ◆ Non-Orange County residents hospitalized in Orange County and Orange County residents hospitalized elsewhere
- ◆ Injured persons who die during their hospital stay
- ◆ Injuries whose origins are iatrogenic (post-operative complications and adverse effects of drugs, medicinal, and biological substances (E870.0-E879.0, E930.0-E949.9))
- ◆ Hospitalizations indicating “place of injury” as the principal cause of injury (E849.0-E849.9). “Place of injury” is not a permitted, principal-cause code.

Additional information on exclusions can be found in *EPIC Proportions*, Report 9, October 1997, “Injury among California’s Children and Adolescents: Who’s at Risk.”

Hospital Charges

- ◆ Hospital charges include all charges for services rendered during the length of stay for patient care at the facility, based on the hospital’s full, established rate. The hospital charge is not necessarily an amount an insurance would pay. In addition, hospital charges do not include physician fees. Therefore, hospital cost information may underestimate the medical bill and overestimate the amount paid to the hospital. Moreover, Kaiser Permanente and the Shriner hospitals are exempt from reporting hospital charges. Also, for some hospitalizations, there were no total charges. Therefore, for Kaiser hospitals, Shriner hospitals, and hospitalizations with no charges, charges were imputed.

The Center for Demographic Research, California State University, Fullerton, Population Estimates

- ◆ Orange County denominator data was provided by the Center for Demographic Research, California State University, Fullerton. For all 1996 calculations in this paper, 1996 Orange County population estimates were used.

California Department of Health Services, Death Records, 1996 and Department of Finance, 1/98 Population Estimates

- ◆ The death rate program (DRATE) was used to calculate all California death rates. This program uses data from the California Department of Health Services, Death Records to determine numerator data and the Department of Finance, 1/98 Population Estimates for the denominator. The Office of Health Information and Research provided DRATE.

Other Data Information

- ◆ Rates were not calculated for numerators less than 5.
- ◆ When comparisons were made to California and *Healthy People 2000*, rates were age-adjusted to the 1940 United States population.

Appendix B

Injury-Related Hospitalizations

**Number of Injury-Related Hospitalizations for All Orange County Residents
by Cause of Injury, Age, and Gender; 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Cut/Pierce	M	254	4	11	5	12	28	73	51	32	14	13	11
	F	77	6	6	3	2	7	17	9	8	7	4	8
Drowning/Submersion	M	48	19	3	1	3	4	6	3	4	2	1	2
	F	21	8	3	1	1	0	2	2	3	1	0	0
Fall	M	2,937	141	118	114	110	108	266	303	230	225	369	953
	F	4,841	100	66	35	38	32	110	161	243	299	720	3,037
Fire/Burn													
<i>Fire/Flames</i>	M	57	3	3	0	1	4	5	18	9	2	6	6
	F	18	1	0	0	0	1	2	6	3	1	2	2
<i>Hot Object/Substance</i>	M	100	32	8	3	2	8	17	9	6	8	4	3
	F	80	32	5	2	1	3	8	6	4	6	3	10
Firearms	M	44	1	0	3	6	18	10	3	1	2	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Machinery in Operation	M	158	0	0	2	6	28	41	34	28	13	4	2
	F	14	0	0	1	0	3	4	1	5	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	1,041	22	30	22	119	153	231	171	118	64	54	57
	F	861	22	16	10	74	107	189	125	97	65	84	72
<i>Motorcyclist</i>	M	235	1	0	2	10	38	83	55	25	17	2	2
	F	20	0	0	0	1	5	6	5	3	0	0	0
<i>MV Pedalcycle</i>	M	90	0	9	6	11	10	21	18	6	4	1	4
	F	16	0	1	1	1	2	2	5	2	2	0	0
<i>MV Pedestrian</i>	M	256	35	30	24	29	20	33	30	20	19	10	6
	F	150	12	16	10	13	3	13	13	14	12	17	27
<i>MV Other</i>	M	20	1	0	5	2	2	4	3	3	0	0	0
	F	4	0	1	0	0	0	0	1	1	0	0	1
<i>MV Unspecified</i>	M	58	1	0	0	4	11	14	10	6	4	5	3
	F	61	0	0	1	5	7	9	11	10	7	7	4
Pedal Cyclist,Other	M	227	4	19	29	21	15	34	37	25	27	13	3
	F	68	2	8	9	1	7	8	13	11	7	2	0
Pedestrian,Other	M	26	6	4	1	0	0	3	4	3	4	0	1
	F	19	4	4	1	1	0	3	0	1	1	1	3
Transport,Other	M	179	4	5	8	19	15	44	30	32	8	5	9
	F	99	2	3	1	6	8	22	17	13	6	8	13
Natural/Environmental	M	134	10	15	6	5	9	22	21	22	5	11	8
	F	133	15	3	3	6	2	21	18	14	19	14	18
Overexertion	M	292	0	3	6	17	21	60	57	47	31	31	19
	F	238	1	1	1	10	14	23	33	33	26	35	61
Poisoning	M	409	51	4	6	16	19	73	100	56	22	30	32
	F	385	27	4	5	27	21	51	68	60	38	35	49
Struck by Object	M	407	12	14	29	57	51	87	81	32	13	21	10
	F	145	8	10	6	9	6	21	14	13	16	23	19
Suffocation	M	31	9	2	0	0	1	2	2	1	2	3	9
	F	46	11	0	0	0	0	0	2	3	2	9	19

All (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Unintentional, Other	M	591	42	15	19	23	41	113	103	68	38	53	76
	F	441	17	7	6	11	10	38	39	32	30	64	187
Intentional-Self-Inflicted													
Cut/Pierce	M	65	0	0	0	1	11	22	24	4	0	0	3
	F	64	0	0	1	10	7	17	21	3	3	1	1
Firearms	M	8	0	0	1	2	0	0	2	0	0	2	1
	F	3	0	0	0	1	0	0	0	0	0	1	1
Poisoning	M	336	0	0	7	33	50	81	92	37	14	7	15
	F	712	0	0	25	112	86	142	165	90	41	19	32
Hanging/Suffocation	M	6	0	0	0	0	1	2	2	1	0	0	0
	F	4	0	0	0	0	0	0	3	0	0	1	0
Suicide, Other	M	40	0	0	1	5	2	15	7	5	1	1	3
	F	32	0	0	1	2	3	9	5	6	2	1	3
Intentional-Assault													
Battering	M	14	11	2	0	0	0	0	0	0	1	0	0
	F	15	7	0	0	1	0	3	1	0	0	0	3
Cutting/Piercing	M	168	1	0	1	30	45	52	26	9	2	2	0
	F	8	0	0	1	0	2	1	2	1	1	0	0
Fight	M	189	0	1	4	22	33	65	43	14	0	2	5
	F	41	0	0	0	1	7	13	10	5	2	2	1
Firearms	M	229	0	0	6	80	67	39	29	5	3	0	0
	F	12	0	0	2	4	3	2	0	1	0	0	0
Other Assault	M	185	0	1	5	31	25	53	42	15	7	3	3
	F	55	1	0	1	2	9	10	12	6	2	5	7
Undetermined/Other													
Undetermined Intent	M	42	0	1	0	3	5	13	13	5	0	1	1
	F	25	2	0	0	0	0	5	9	3	2	2	2
Legal Intervention/War	M	18	0	0	0	3	3	5	6	1	0	0	0
	F	2	0	0	0	1	0	0	1	0	0	0	0
Late Effects													
Late Effects	M	725	6	13	14	41	59	154	173	97	53	60	55
	F	410	5	7	0	13	21	45	72	61	44	50	92
Total	M	9,619	416	311	330	724	905	1,743	1,602	967	605	714	1,302
	F	9,121	283	161	127	354	376	797	850	749	642	1,110	3,672
	All	18,740	699	472	457	1,078	1,281	2,540	2,452	1,716	1,247	1,824	4,974

Orange County Population, 1996	M	1,331,258	117,374	99,008	87,171	84,464	98,187	267,652	228,857	157,955	94,117	59,372	37,101
	F	1,293,077	109,099	93,548	81,832	77,482	84,940	227,864	214,550	161,414	97,508	76,091	68,749
Total Number of Hospitalizations	M	121,991	32,993	1,579	1,515	2,610	2,802	8,730	11,489	11,182	12,424	17,417	19,250
	F	191,475	30,156	1,234	1,443	7,484	14,268	39,554	20,915	13,166	11,630	18,550	33,075

**Number of Injury-Related Hospitalizations for White Non-Hispanic Orange County Residents
by Cause of Injury, Age, and Gender; 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Cut/Pierce	M	145	1	4	1	6	11	36	34	22	9	13	8
	F	48	1	4	1	1	2	9	6	6	6	4	8
Drowning/Submersion	M	29	11	2	1	1	0	4	2	3	2	1	2
	F	16	5	1	1	1	0	2	2	3	1	0	0
Fall	M	2,140	54	59	71	72	51	140	203	159	178	307	846
	F	4,141	33	31	26	27	17	72	126	190	243	600	2,776
Fire/Burn													
<i>Fire/Flames</i>	M	35	0	1	0	1	1	1	13	8	1	3	6
	F	14	1	0	0	0	0	1	5	2	1	2	2
<i>Hot Object/Substance</i>	M	34	8	2	0	0	3	5	3	3	7	3	0
	F	37	7	0	2	0	1	5	5	3	4	3	7
Firearms	M	16	0	0	2	1	1	6	3	1	2	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Machinery in Operation	M	68	0	0	1	2	9	11	14	18	8	4	1
	F	8	0	0	1	0	2	1	1	3	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	567	10	15	10	63	58	108	104	70	37	41	51
	F	523	9	5	7	47	50	100	70	63	47	61	64
<i>Motorcyclist</i>	M	194	0	0	2	8	31	69	48	19	13	2	2
	F	18	0	0	0	1	5	4	5	3	0	0	0
<i>MV Pedalcycle</i>	M	48	0	2	5	5	2	12	14	3	2	1	2
	F	8	0	0	0	1	0	1	4	1	1	0	0
<i>MV Pedestrian</i>	M	111	7	9	13	15	7	15	11	14	9	6	5
	F	82	2	5	4	12	1	6	11	7	7	8	19
<i>MV Other</i>	M	12	0	0	4	2	2	1	2	1	0	0	0
	F	2	0	0	0	0	0	0	0	1	0	0	1
<i>MV Unspecified</i>	M	34	1	0	0	1	8	8	4	3	4	2	3
	F	41	0	0	0	0	3	6	9	9	4	7	3
Pedal Cyclist, Other	M	181	2	12	24	15	10	27	29	22	26	12	2
	F	53	1	5	4	1	5	6	12	11	6	2	0
Pedestrian, Other	M	13	2	3	1	0	0	1	1	1	3	0	1
	F	10	0	1	1	1	0	1	0	1	1	1	3
Transport, Other	M	146	3	5	6	17	10	35	26	25	6	5	8
	F	82	0	3	1	5	3	19	17	11	5	7	11
Natural/Environmental	M	90	1	6	5	3	8	16	14	16	4	9	8
	F	110	10	2	2	2	1	19	17	11	16	12	18
Overexertion	M	219	0	1	5	13	12	39	39	39	22	30	19
	F	196	0	0	0	6	10	19	26	25	21	33	56
Poisoning	M	258	22	0	4	10	7	42	72	37	17	26	21
	F	288	16	4	4	16	15	36	48	50	28	29	42
Struck by Object	M	250	6	9	16	39	23	49	56	22	8	15	7
	F	108	2	7	6	9	5	15	12	9	11	15	17
Suffocation	M	21	5	0	0	0	1	2	1	0	2	2	8
	F	30	5	0	0	0	0	0	0	1	0	7	17

White Non-Hispanic (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Unintentional,Other	M	377	13	6	14	12	19	59	61	56	27	44	66
	F	354	4	2	5	6	6	28	27	27	27	55	167
Intentional-Self-Inflicted													
Cut/Pierce	M	47	0	0	0	1	6	13	20	4	0	0	3
	F	50	0	0	1	8	5	13	17	2	3	0	1
Firearms	M	8	0	0	1	2	0	0	2	0	0	2	1
	F	2	0	0	0	0	0	0	0	0	0	1	1
Poisoning	M	248	0	0	4	22	32	58	73	30	9	6	14
	F	489	0	0	16	47	45	98	134	72	30	16	31
Hanging/Suffocation	M	4	0	0	0	0	1	2	0	1	0	0	0
	F	3	0	0	0	0	0	0	2	0	0	1	0
Suicide,Other	M	29	0	0	0	1	2	10	7	4	1	1	3
	F	21	0	0	1	1	2	6	4	3	0	1	3
Intentional-Assault													
Battering	M	7	4	2	0	0	0	0	0	0	1	0	0
	F	8	2	0	0	0	0	2	1	0	0	0	3
Cutting/Piercing	M	58	0	0	0	10	14	18	11	3	2	0	0
	F	5	0	0	0	0	2	0	1	1	1	0	0
Fight	M	101	0	0	3	13	17	32	22	8	0	2	4
	F	27	0	0	0	0	4	7	7	4	2	2	1
Firearms	M	48	0	0	1	13	12	8	11	2	1	0	0
	F	4	0	0	2	2	0	0	0	0	0	0	0
Other Assault	M	97	0	0	3	12	10	34	19	9	4	3	3
	F	32	0	0	0	1	3	7	4	4	2	4	7
Undetermined/Other													
Undetermined Intent	M	32	0	0	0	2	3	9	11	5	0	1	1
	F	18	1	0	0	0	0	3	6	3	2	2	1
Legal Intervention/War	M	8	0	0	0	0	0	2	5	1	0	0	0
	F	1	0	0	0	1	0	0	0	0	0	0	0
Late Effects													
Late Effects	M	473	1	4	11	14	23	99	126	66	35	50	44
	F	317	2	4	0	8	12	31	54	46	38	43	79
Total	M	6,148	151	142	208	376	394	971	1,061	675	440	591	1,139
	F	7,146	101	74	85	204	199	517	633	572	507	916	3,338
	All	13,294	252	216	293	580	593	1,488	1,694	1,247	947	1,507	4,477

Orange County Population, 1996	M	758,892	47,059	47,371	43,758	40,911	42,599	133,815	143,460	111,217	69,571	47,541	31,590
	F	775,961	43,965	44,241	41,330	38,740	41,087	124,465	136,325	114,564	71,498	60,225	59,521
Total Number of Hospitalizations	M	80,255	13,960	731	899	1,614	1,457	5,384	7,832	8,217	9,559	14,065	16,537
	F	117,806	12,703	599	797	2,831	4,712	19,767	13,459	9,854	8,927	15,004	29,153

**Number of Injury-Related Hospitalizations for Hispanic Orange County Residents
by Cause of Injury, Age, and Gender; 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Cut/Pierce	M	89	2	5	4	6	14	30	15	6	5	0	2
	F	18	5	2	1	0	3	3	3	1	0	0	0
Drowning/Submersion	M	12	5	1	0	0	4	1	0	1	0	0	0
	F	3	2	1	0	0	0	0	0	0	0	0	0
Fall	M	537	69	49	25	29	46	99	67	48	19	32	54
	F	405	60	28	2	7	13	25	24	30	24	58	134
Fire/Burn													
<i>Fire/Flames</i>	M	13	1	1	0	0	3	2	3	0	1	2	0
	F	3	0	0	0	0	1	1	1	0	0	0	0
<i>Hot Object/Substance</i>	M	46	18	4	2	1	3	7	4	2	1	1	3
	F	28	17	4	0	1	2	1	0	0	1	0	2
Firearms	M	21	1	0	1	4	12	3	0	0	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Machinery in Operation	M	70	0	0	1	3	16	26	15	5	4	0	0
	F	6	0	0	0	0	1	3	0	2	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	304	10	11	5	35	67	93	41	18	12	7	5
	F	181	9	7	1	15	35	57	27	12	6	8	4
<i>Motorcyclist</i>	M	19	1	0	0	1	1	5	5	3	3	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
<i>MV Pedalcycle</i>	M	36	0	6	0	5	7	9	4	3	2	0	0
	F	5	0	0	1	0	1	1	1	0	1	0	0
<i>MV Pedestrian</i>	M	105	23	17	4	14	9	16	12	5	3	2	0
	F	40	8	10	4	1	2	4	1	5	1	2	2
<i>MV Other</i>	M	7	1	0	1	0	0	3	1	1	0	0	0
	F	1	0	1	0	0	0	0	0	0	0	0	0
<i>MV Unspecified</i>	M	15	0	0	0	3	3	3	4	1	0	1	0
	F	12	0	0	1	3	2	2	0	0	3	0	1
Pedal Cyclist,Other	M	34	2	5	2	5	4	5	8	2	0	0	1
	F	13	1	3	4	0	2	2	0	0	1	0	0
Pedestrian,Other	M	8	3	0	0	0	0	2	3	0	0	0	0
	F	8	4	3	0	0	0	1	0	0	0	0	0
Transport,Other	M	22	1	0	2	0	4	7	3	3	1	0	1
	F	8	0	0	0	1	5	1	0	1	0	0	0
Natural/Environmental	M	32	7	8	1	1	1	6	3	4	0	1	0
	F	13	4	1	1	1	1	1	0	3	0	1	0
Overexertion	M	47	0	2	1	3	7	13	8	6	6	1	0
	F	25	1	1	1	1	4	3	3	8	2	0	1
Poisoning	M	101	22	4	1	4	10	21	19	12	4	2	2
	F	56	10	0	1	7	2	9	10	4	5	5	3
Struck by Object	M	116	5	3	9	12	23	31	18	7	4	3	1
	F	27	5	3	0	0	1	2	2	2	3	7	2
Suffocation	M	9	3	2	0	0	0	0	1	1	0	1	1
	F	8	3	0	0	0	0	0	1	2	1	1	0

Hispanic (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Unintentional, Other	M	139	19	6	4	7	18	40	30	4	3	4	4
	F	49	11	4	0	2	3	4	6	0	3	5	11
Intentional-Self-Inflicted													
Cut/Pierce	M	12	0	0	0	0	3	6	3	0	0	0	0
	F	7	0	0	0	1	1	2	2	0	0	1	0
Firearms	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	1	0	0	0	0	0	0	0
Poisoning	M	54	0	0	2	7	11	13	14	4	2	1	0
	F	118	0	0	4	34	20	26	16	10	6	1	1
Hanging/Suffocation	M	2	0	0	0	0	0	0	2	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Suicide, Other	M	9	0	0	1	4	0	3	0	1	0	0	0
	F	3	0	0	0	1	1	1	0	0	0	0	0
Intentional-Assault													
Battering	M	6	6	0	0	0	0	0	0	0	0	0	0
	F	7	5	0	0	1	0	1	0	0	0	0	0
Cutting/Piercing	M	90	1	0	1	15	26	27	12	6	0	2	0
	F	2	0	0	1	0	0	0	1	0	0	0	0
Fight	M	66	0	0	1	7	11	25	19	3	0	0	0
	F	7	0	0	0	0	0	5	1	1	0	0	0
Firearms	M	135	0	0	4	51	40	22	14	2	2	0	0
	F	7	0	0	0	2	3	2	0	0	0	0	0
Undetermined/Other													
Other Assault	M	69	0	1	2	16	14	15	15	4	2	0	0
	F	14	1	0	1	0	6	1	5	0	0	0	0
Undetermined Intent	M	7	0	1	0	1	2	3	0	0	0	0	0
	F	2	1	0	0	0	0	0	1	0	0	0	0
Legal Intervention/War	M	9	0	0	0	2	3	3	1	0	0	0	0
	F	1	0	0	0	0	0	0	1	0	0	0	0
Late Effects													
Late Effects	M	163	4	6	2	19	25	37	27	18	12	7	6
	F	52	3	3	0	3	5	11	9	5	4	5	4
Total	M	2,404	204	132	76	255	387	576	371	170	86	67	80
	F	1,132	150	71	23	82	114	171	115	86	61	94	165
	All	3,536	354	203	99	337	501	747	486	256	147	161	245

Orange County Population, 1996	M	385,866	53,044	36,388	29,322	29,705	39,744	98,769	52,712	24,606	12,554	6,419	2,603
	F	332,591	50,533	34,680	27,065	25,601	29,315	69,889	44,813	23,940	13,634	8,313	4,808
Total Number of Hospitalizations	M	26,443	13,983	636	414	687	925	2,003	1,994	1,493	1,424	1,690	1,194
	F	50,059	12,907	462	432	3,976	7,873	13,499	4,095	1,612	1,430	1,845	1,928

**Number of Injury-Related Hospitalizations for Asian and Pacific Islander Orange County Residents
by Cause of Injury, Age, and Gender, 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Cut/Pierce	M	10	1	1	0	0	0	5	0	2	0	0	1
	F	2	0	0	0	0	1	1	0	0	0	0	0
Drowning/Submersion	M	4	2	0	0	2	0	0	0	0	0	0	0
	F	1	1	0	0	0	0	0	0	0	0	0	0
Fall	M	146	12	6	10	5	8	11	13	11	17	17	36
	F	164	4	4	4	3	2	2	6	11	16	37	75
Fire/Burn													
<i>Fire/Flames</i>	M	5	2	0	0	0	0	1	0	1	0	1	0
	F	1	0	0	0	0	0	0	0	1	0	0	0
<i>Hot Object/Substance</i>	M	12	4	0	1	1	1	3	1	1	0	0	0
	F	6	3	0	0	0	0	1	0	0	1	0	1
Firearms	M	3	0	0	0	1	1	1	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Machinery in Operation	M	9	0	0	0	0	1	2	3	2	1	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	108	2	0	7	14	17	18	16	20	9	4	1
	F	97	3	3	2	8	14	16	17	12	9	10	3
<i>Motorcyclist</i>	M	4	0	0	0	0	2	2	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Pedalcycle</i>	M	2	0	0	0	0	0	0	0	0	0	0	2
	F	2	0	1	0	0	0	0	0	1	0	0	0
<i>MV Pedestrian</i>	M	18	2	2	3	0	1	1	3	0	5	0	1
	F	14	0	0	1	0	0	2	0	1	2	3	5
<i>MV Other</i>	M	1	0	0	0	0	0	0	0	1	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Unspecified</i>	M	6	0	0	0	0	0	2	2	1	0	1	0
	F	6	0	0	0	1	2	1	1	1	0	0	0
Pedal Cyclist,Other	M	7	0	1	2	1	0	0	0	1	1	1	0
	F	2	0	0	1	0	0	0	1	0	0	0	0
Pedestrian,Other	M	5	1	1	0	0	0	0	0	2	1	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Transport,Other	M	5	0	0	0	0	1	0	1	3	0	0	0
	F	4	1	0	0	0	0	0	0	0	1	0	2
Natural/Environmental	M	4	0	1	0	1	0	0	1	1	0	0	0
	F	5	1	0	0	2	0	1	0	0	1	0	0
Overexertion	M	6	0	0	0	0	1	2	3	0	0	0	0
	F	5	0	0	0	2	0	0	1	0	1	1	0
Poisoning	M	24	0	0	1	1	2	5	4	3	1	1	6
	F	27	1	0	0	2	3	5	5	4	2	1	4
Struck by Object	M	19	0	1	2	3	1	2	3	3	0	2	2
	F	5	1	0	0	0	0	2	0	0	1	1	0

Asian and Pacific Islander (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Suffocation	M	1	1	0	0	0	0	0	0	0	0	0	0
	F	6	3	0	0	0	0	0	0	0	0	1	2
Unintentional, Other	M	32	5	1	1	0	2	4	5	5	5	2	2
	F	19	0	1	0	0	1	2	3	4	0	3	5
Intentional-Self-Inflicted													
Cut/Pierce	M	5	0	0	0	0	2	3	0	0	0	0	0
	F	6	0	0	0	1	1	1	2	1	0	0	0
Firearms	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	18	0	0	1	4	4	3	2	1	2	0	1
	F	71	0	0	3	20	18	11	6	7	4	2	0
Hanging/Suffocation	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	1	0	0	0	0
Suicide, Other	M	1	0	0	0	0	0	1	0	0	0	0	0
	F	6	0	0	0	0	0	1	1	2	2	0	0
Intentional-Assault													
Battering	M	1	1	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Cutting/Piercing	M	11	0	0	0	4	4	3	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Fight	M	6	0	0	0	0	2	2	1	1	0	0	0
	F	2	0	0	0	0	1	0	1	0	0	0	0
Firearms	M	32	0	0	0	14	11	5	2	0	0	0	0
	F	1	0	0	0	0	0	0	0	1	0	0	0
Other Assault	M	6	0	0	0	1	0	1	2	1	1	0	0
	F	6	0	0	0	1	0	1	1	2	0	1	0
Undetermined/Other													
Undetermined Intent	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	0	0	0	1
Legal Intervention/War	M	1	0	0	0	1	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Late Effects													
Late Effects	M	43	0	2	1	4	5	9	6	6	5	0	5
	F	23	0	0	0	2	3	2	3	6	1	2	4
Total													
	M	555	33	16	29	57	66	86	68	66	48	29	57
	F	483	18	9	11	42	46	49	49	54	41	62	102
	All	1,038	51	25	40	99	112	135	117	120	89	91	159

Orange County Population, 1996	M	153,653	14,156	12,316	11,536	11,503	13,316	27,874	26,676	18,636	10,185	4,728	2,727
	F	154,448	11,633	11,702	11,144	11,017	12,291	27,451	28,076	19,618	10,807	6,771	3,938
Total Number of Hospitalizations	M	8,367	3,121	119	117	161	223	431	545	690	818	1,119	1,023
	F	14,175	2,807	99	133	318	944	4,056	1,961	899	705	1,047	1,206

**Number of Injury-Related Hospitalizations for Black Non-Hispanic Orange County Residents
by Cause of Injury, Age, and Gender; 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Cut/Pierce	M	4	0	1	0	0	1	0	1	1	0	0	0
	F	3	0	0	0	0	0	3	0	0	0	0	0
Drowning/Submersion	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Fall	M	46	3	1	1	1	2	11	12	10	2	4	2
	F	36	1	1	0	1	0	6	0	7	4	6	11
Fire/Burn													
<i>Fire/Flames</i>	M	1	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hot Object/Substance</i>	M	5	1	2	0	0	0	2	1	0	0	0	0
	F	0	2	0	0	0	0	0	0	0	0	0	0
Firearms	M	1	0	0	0	0	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Machinery in Operation	M	3	0	0	0	1	1	1	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	24	0	3	0	1	5	4	3	5	1	2	0
	F	23	0	1	0	1	3	6	7	4	0	1	0
<i>Motorcyclist</i>	M	10	0	0	0	1	2	4	2	1	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
<i>MV Pedalcycle</i>	M	1	0	0	0	0	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Pedestrian</i>	M	11	0	1	4	0	0	1	3	1	1	0	0
	F	2	1	1	0	0	0	0	0	0	0	1	0
<i>MV Other</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	1	0	0	0	0
<i>MV Unspecified</i>	M	1	0	0	0	0	0	0	0	1	0	0	0
	F	1	0	0	0	1	0	0	0	0	0	0	0
Pedal Cyclist,Other	M	2	0	0	0	0	1	1	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian,Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Transport,Other	M	2	0	0	0	0	0	1	0	0	1	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Natural/Environmental	M	4	0	0	0	0	0	0	3	0	0	1	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Overexertion	M	13	0	0	0	1	0	4	6	1	1	0	0
	F	8	0	0	0	1	0	1	3	0	1	1	1
Poisoning	M	9	5	0	0	0	0	2	3	3	0	0	1
	F	6	0	0	0	0	0	0	3	1	2	0	0
Struck by Object	M	7	1	1	1	1	0	1	2	0	1	0	0
	F	3	0	0	0	0	0	1	0	2	0	0	0

Black Non-Hispanic (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Suffocation	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Unintentional, Other	M	15	1	1	0	1	1	3	4	2	1	0	2
	F	5	1	0	0	1	0	2	1	0	0	1	0
<i>Intentional-Self-Inflicted</i>													
Cut/Pierce	M	1	0	0	0	0	0	0	1	0	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Firearms	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	6	0	0	0	0	3	3	0	0	0	0	0
	F	17	0	0	1	5	1	2	8	0	0	0	0
Hanging/Suffocation	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Suicide, Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Intentional-Assault</i>													
Battering	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Cutting/Piercing	M	6	0	0	0	0	1	3	2	0	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Fight	M	8	0	0	0	1	3	3	0	1	0	0	0
	F	4	0	0	0	1	2	1	0	0	0	0	0
Firearms	M	9	0	0	1	1	3	4	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Other Assault	M	11	0	0	0	0	1	3	6	1	0	0	0
	F	2	0	0	0	0	0	1	1	0	0	0	0
<i>Undetermined/Other</i>													
Undetermined Intent	M	2	0	0	0	0	0	1	1	0	0	0	0
	F	3	0	0	0	0	0	1	2	0	0	0	0
Legal Intervention/War	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Late Effects</i>													
Late Effects	M	25	1	1	0	3	1	7	10	1	1	1	0
	F	7	0	0	0	0	1	0	3	3	0	0	0
Total	M	239	12	11	7	12	27	59	61	28	9	8	5
	F	129	5	3	1	11	7	27	29	17	7	10	12
	All	351	17	14	8	23	34	86	90	45	16	18	17

Orange County Population, 1996	M	25,079	2,632	2,414	1,960	1,803	2,011	5,602	4,587	2,377	1,209	356	128
	F	22,705	2,521	2,386	1,836	1,652	1,711	4,624	4,028	2,231	1,003	457	256
Total Number of Hospitalizations	M	3,267	546	54	46	78	116	688	799	410	244	173	113
	F	3,842	491	37	45	186	309	900	746	449	257	201	221

Appendix C

Injury-Related Deaths

**Number of Injury-Related Deaths for All Orange County Residents
by Cause of Injury, Age, and Gender, 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Unintentional													
Drowning/Submersion	M	32	6	2	0	1	2	7	4	2	3	1	4
	F	9	3	3	1	0	0	0	0	0	0	1	1
Fall	M	60	0	0	0	0	1	1	1	5	6	12	34
	F	42	1	0	0	0	0	1	1	0	5	8	26
Fire/Burn													
Fire/Flames	M	3	0	0	0	0	0	1	0	0	0	1	1
	F	4	0	0	0	1	0	0	1	0	1	0	1
Firearms	M	5	0	0	0	1	2	2	0	0	0	0	0
Machinery in Operation	M	2	0	0	0	1	0	1	0	0	0	0	0
Motor Vehicle Traffic													
MV Occupant	M	85	3	0	1	14	15	17	15	8	5	2	5
	F	57	2	0	2	8	11	11	5	4	3	3	8
Motorcyclist	M	22	0	0	0	0	2	9	7	4	0	0	0
MV Pedalcycle	M	7	0	0	0	0	0	0	4	2	0	1	0
	F	2	0	0	0	0	1	0	0	0	1	0	0
MV Pedestrian	M	34	3	0	0	3	2	6	4	5	5	4	2
	F	15	2	1	0	0	0	1	2	4	1	2	2
MV Other	M	1	0	0	0	0	0	1	0	0	0	0	0
MV Unspecified	M	1	0	0	0	0	1	0	0	0	0	0	0
Pedal Cyclist,Other	M	1	0	0	0	0	0	0	1	0	0	0	0
Pedestrian,Other	M	5	1	0	0	0	0	0	1	3	0	0	0
Transport,Other	M	13	0	0	1	0	0	6	1	1	3	0	1
	F	1	0	0	0	0	0	0	1	0	0	0	0
Natural/Environmental	M	1	0	0	0	0	0	0	1	0	0	0	0
Poisoning	M	136	0	0	0	0	8	46	53	27	2	0	0
	F	43	0	0	0	0	1	8	17	11	2	2	2
Suffocation	M	21	8	0	1	1	1	0	1	1	1	4	3
	F	13	2	0	0	0	0	1	0	0	1	1	8
Unintentional,Other	M	4	0	0	0	0	0	1	2	0	0	0	1
	F	1	0	0	0	0	0	0	0	0	0	0	1
Intentional-Suicide													
Cut/Pierce	M	5	0	0	0	0	0	1	1	0	2	0	1
	F	4	0	0	0	0	0	1	2	1	0	0	0
Firearms	M	85	0	0	0	3	10	16	10	15	11	11	9
	F	9	0	0	0	0	0	1	2	3	2	1	0
Poisoning	M	28	0	0	0	1	4	3	7	8	3	1	1
	F	24	0	0	0	1	0	5	4	5	3	4	2
Hanging/Suffocation	M	34	0	0	0	3	6	6	10	4	1	4	0
	F	10	0	0	0	2	0	1	3	1	0	0	3
Suicide,Other	M	7	0	0	0	1	1	1	0	2	2	0	0
	F	5	0	0	0	1	1	2	0	0	1	0	0
Intentional-Homicide													
Battering	M	2	1	1	0	0	0	0	0	0	0	0	0
	F	3	3	0	0	0	0	0	0	0	0	0	0

All (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Cutting/Piercing	M	12	0	0	0	2	1	3	4	2	0	0	0
	F	2	0	0	0	0	0	1	0	0	1	0	0
Firearms	M	80	1	0	1	20	20	22	8	3	3	2	0
	F	9	0	0	0	1	1	1	4	1	1	0	0
Other Assault	M	10	4	0	0	1	1	2	1	1	0	0	0
	F	7	2	0	0	0	0	2	1	0	0	1	1
Undetermined/Other													
Undetermined Intent	M	10	2	0	0	2	1	1	2	2	0	0	0
	F	6	2	0	0	0	0	0	0	0	1	2	1
Legal Intervention/War	M	10	0	0	0	1	0	4	3	0	0	2	0
Late Effects													
Late Effects	M	6	0	1	0	0	0	2	1	1	0	1	0
Total	M	722	29	4	4	55	78	159	142	96	47	46	62
	F	266	17	4	3	14	15	36	43	30	23	25	56
	All	988	46	8	7	69	93	195	185	126	70	71	118

Orange County Population, 1996	M	1,331,258	117,374	99,008	87,171	84,464	98,187	267,652	228,857	157,955	94,117	59,372	37,101
	F	1,293,077	109,099	93,548	81,832	77,482	84,940	227,864	214,550	161,414	97,508	76,091	68,749
Total Number of Deaths	M	7,663	150	10	17	63	92	289	438	564	884	1,693	3,463
	F	8,035	131	11	10	23	26	110	194	367	624	1,360	5,179

**Number of Injury-Related Deaths for White Non-Hispanic Orange County Residents
by Cause of Injury, Age, and Gender, 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Drowning/Submersion	M	16	2	0	0	1	0	4	2	2	2	1	2
	F	6	2	2	1	0	0	0	0	0	0	0	1
Fall	M	57	0	0	0	0	1	1	1	5	5	11	33
	F	30	0	0	0	0	0	0	1	0	2	6	21
Fire/Burn													
<i>Fire/Flames</i>	M	3	0	0	0	0	0	1	0	0	0	1	1
	F	3	0	0	0	1	0	0	1	0	0	0	1
Firearms	M	3	0	0	0	1	1	1	0	0	0	0	0
Machinery in Operation	M	1	0	0	0	0	0	1	0	0	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	35	1	0	0	4	3	5	5	5	5	2	5
	F	34	2	0	0	4	6	6	2	2	1	3	8
<i>Motorcyclist</i>	M	18	0	0	0	0	1	8	5	4	0	0	0
<i>MV Pedalcycle</i>	M	3	0	0	0	0	0	0	2	1	0	0	0
	F	1	0	0	0	0	0	0	0	0	1	0	0
<i>MV Pedestrian</i>	M	19	2	0	0	1	1	1	2	3	4	3	2
	F	7	1	1	0	0	0	0	2	2	0	0	1
<i>MV Other</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Unspecified</i>	M	1	0	0	0	0	1	0	0	0	0	0	0
Pedal Cyclist,Other	M	1	0	0	0	0	0	0	1	0	0	0	0
Pedestrian,Other	M	4	1	0	0	0	0	0	0	3	0	0	0
Transport,Other	M	10	0	0	1	0	0	5	0	1	2	0	1
	F	1	0	0	0	0	0	0	1	0	0	0	0
Natural/Environmental	M	1	0	0	0	0	0	0	1	0	0	0	0
Poisoning	M	91	0	0	0	0	5	27	38	19	2	0	0
	F	38	0	0	0	0	1	5	16	10	2	2	2
Suffocation	M	11	2	0	0	1	0	0	1	0	1	4	2
	F	11	1	0	0	0	0	1	0	0	1	1	7
Unintentional,Other	M	3	0	0	0	0	0	1	1	0	0	0	1
	F	1	0	0	0	0	0	0	0	0	0	0	1
<i>Intentional-Suicide</i>													
Cut/Pierce	M	5	0	0	0	0	0	1	1	0	2	0	1
	F	2	0	0	0	0	0	0	1	1	0	0	0
Firearms	M	72	0	0	0	3	5	14	9	11	10	11	9
	F	9	0	0	0	0	0	1	2	3	2	1	0
Poisoning	M	27	0	0	0	1	4	3	7	8	2	1	1
	F	20	0	0	0	0	0	5	2	4	3	4	2
Hanging/Suffocation	M	25	0	0	0	2	4	3	8	4	1	3	0
	F	8	0	0	0	1	0	1	3	1	0	0	2
Suicide,Other	M	5	0	0	0	1	1	0	0	1	2	0	0
	F	4	0	0	0	0	1	2	0	0	1	0	0
<i>Intentional-Homicide</i>													
Battering	M	1	0	1	0	0	0	0	0	0	0	0	0
	F	1	1	0	0	0	0	0	0	0	0	0	0

White Non-Hispanic (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Cutting/Piercing	M	6	0	0	0	0	0	3	2	1	0	0	0
	F	2	0	0	0	0	0	1	0	0	1	0	0
Firearms	M	23	1	0	0	3	5	6	3	2	2	1	0
	F	6	0	0	0	1	0	0	3	1	1	0	0
Other Assault	M	6	3	0	0	0	0	2	0	1	0	0	0
	F	7	2	0	0	0	0	2	1	0	0	1	1
<i>Undetermined/Other</i>													
Undetermined Intent	M	4	1	0	0	0	0	0	2	1	0	0	0
	F	3	0	0	0	0	0	0	0	0	1	2	0
Legal Intervention/War	M	7	0	0	0	0	0	3	2	0	0	2	0
<i>Late Effects</i>													
Late Effects	M	4	0	0	0	0	0	2	0	1	0	1	0
Total	M	462	13	1	1	18	32	92	93	73	40	41	58
	F	194	9	3	1	7	8	24	35	24	16	20	47
	All	656	22	4	2	25	40	116	128	97	56	61	105

Orange County Population, 1996	M	758,892	47,059	47,371	43,758	40,911	42,599	133,815	143,460	111,217	69,571	47,541	31,590
	F	775,961	43,965	44,241	41,330	38,740	41,087	124,465	136,325	114,564	71,498	60,225	59,521
Total Number of Deaths	M	6,201	56	4	6	22	36	160	290	431	700	1,425	3,071
	F	6,930	55	4	4	12	11	71	142	282	481	1,145	4,723

**Number of Injury-Related Deaths for Hispanic Orange County Residents
by Cause of Injury, Age, and Gender, 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Drowning/Submersion	M	10	3	1	0	0	2	2	1	0	1	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Fall	M	3	0	0	0	0	0	0	0	0	1	1	1
	F	8	1	0	0	0	0	1	0	0	2	1	3
Fire/Burn													
<i>Fire/Flames</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Firearms	M	2	0	0	0	0	1	1	0	0	0	0	0
Machinery in Operation	M	1	0	0	0	1	0	0	0	0	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	32	2	0	1	7	5	8	7	2	0	0	0
	F	14	0	0	2	1	5	3	2	0	1	0	0
<i>Motorcyclist</i>	M	2	0	0	0	0	0	0	2	0	0	0	0
<i>MV Pedalcycle</i>	M	2	0	0	0	0	0	0	1	1	0	0	0
	F	1	0	0	0	0	1	0	0	0	0	0	0
<i>MV Pedestrian</i>	M	11	1	0	0	1	0	4	2	2	0	1	0
	F	6	1	0	0	0	0	1	0	1	1	1	1
<i>MV Other</i>	M	1	0	0	0	0	0	1	0	0	0	0	0
<i>MV Unspecified</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
Pedal Cyclist, Other	M	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian, Other	M	1	0	0	0	0	0	0	1	0	0	0	0
Transport, Other	M	1	0	0	0	0	0	1	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Natural/Environmental	M	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	38	0	0	0	0	1	18	13	6	0	0	0
	F	3	0	0	0	0	0	2	0	1	0	0	0
Suffocation	M	7	4	0	0	0	1	0	0	1	0	0	1
	F	1	1	0	0	0	0	0	0	0	0	0	0
Unintentional, Other	M	1	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Intentional-Suicide</i>													
Cut/Pierce	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Firearms	M	7	0	0	0	0	2	2	1	2	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	2	0	0	0	0	0	0	1	1	0	0	0
Hanging/Suffocation	M	3	0	0	0	0	0	1	2	0	0	0	0
	F	1	0	0	0	1	0	0	0	0	0	0	0
Suicide, Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	1	0	0	0	0	0	0	0
<i>Intentional-Homicide</i>													
Battering	M	1	1	0	0	0	0	0	0	0	0	0	0
	F	2	2	0	0	0	0	0	0	0	0	0	0

Hispanic (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Cutting/Piercing	M	5	0	0	0	2	0	0	2	1	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Firearms	M	43	0	0	1	13	12	12	3	1	1	0	0
	F	2	0	0	0	0	1	0	1	0	0	0	0
Other Assault	M	3	0	0	0	1	1	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Undetermined/Other													
Undetermined Intent	M	5	1	0	0	2	1	0	0	1	0	0	0
	F	2	2	0	0	0	0	0	0	0	0	0	0
Legal Intervention/War	M	2	0	0	0	1	0	0	1	0	0	0	0
Late Effects													
Late Effects	M	1	0	0	0	0	0	0	1	0	0	0	0
Total	M	182	12	1	2	28	26	50	39	17	3	2	2
	F	44	7	0	2	3	7	8	4	3	4	2	4
	All	226	19	1	4	31	33	58	43	20	7	4	6

Orange County Population, 1996	M	385,866	53,044	36,388	29,322	29,705	39,744	98,769	52,712	24,606	12,554	6,419	2,603
	F	332,591	50,533	34,680	27,065	25,601	29,315	69,889	44,813	23,940	13,634	8,313	4,808
Total Number of Deaths	M	797	62	4	6	30	33	94	102	70	92	118	186
	F	622	58	6	6	6	11	28	32	45	74	113	243

**Number of Injury-Related Deaths for Asian and Pacific Islander Orange County Residents
by Cause of Injury, Age, and Gender, 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Drowning/Submersion	M	5	1	1	0	0	0	1	0	0	0	0	2
	F	2	1	0	0	0	0	0	0	0	0	1	0
Fall	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	3	0	0	0	0	0	0	0	0	0	1	2
Fire/Burn													
<i>Fire/Flames</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Firearms	M	0	0	0	0	0	0	0	0	0	0	0	0
Machinery in Operation	M	0	0	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	14	0	0	0	3	6	2	2	1	0	0	0
	F	9	0	0	0	3	0	2	1	2	1	0	0
<i>Motorcyclist</i>	M	1	0	0	0	0	1	0	0	0	0	0	0
<i>MV Pedalcycle</i>	M	1	0	0	0	0	0	0	0	0	0	1	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Pedestrian</i>	M	4	0	0	0	1	1	1	0	0	1	0	0
	F	1	0	0	0	0	0	0	0	0	0	1	0
<i>MV Other</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Unspecified</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
Pedal Cyclist, Other	M	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian, Other	M	0	0	0	0	0	0	0	0	0	0	0	0
Transport, Other	M	1	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Natural/Environmental	M	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	3	0	0	0	0	2	0	0	1	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Suffocation	M	3	2	0	1	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	0	0	0	1
Unintentional, Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Intentional-Suicide</i>													
Cut/Pierce	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Firearms	M	4	0	0	0	0	2	0	0	2	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	1	0	0	0	0	0	0	0	0	1	0	0
	F	1	0	0	0	1	0	0	0	0	0	0	0
Hanging/Suffocation	M	6	0	0	0	1	2	2	0	0	0	1	0
	F	1	0	0	0	0	0	0	0	0	0	0	1
Suicide, Other	M	1	0	0	0	0	0	1	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Intentional-Homicide</i>													
Battering	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0

Asian and Pacific Islander (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Cutting/Piercing	M	1	0	0	0	0	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Firearms	M	7	0	0	0	3	2	2	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Other Assault	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Undetermined/Other</i>													
Undetermined Intent	M	1	0	0	0	0	0	1	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	0	0	0	1
Legal Intervention/War	M	1	0	0	0	0	0	1	0	0	0	0	0
<i>Late Effects</i>													
Late Effects	M	0	0	0	0	0	0	0	0	0	0	0	0
Total	M	54	3	1	1	8	17	11	3	4	2	2	2
	F	20	1	0	0	4	0	3	1	2	1	3	5
	All	74	4	1	1	12	17	14	4	6	3	5	7

Orange County Population, 1996	M	153,653	14,156	12,316	11,536	11,503	13,316	27,874	26,676	18,636	10,185	4,728	2,727
	F	154,448	11,633	11,702	11,144	11,017	12,291	27,451	28,076	19,618	10,807	6,771	3,938
	M	510	19	1	4	9	19	21	26	45	73	123	170
	F	367	11	0	0	4	3	7	14	28	49	80	171
Total Number of Deaths													

**Number of Injury-Related Deaths for Black Non-Hispanic Orange County Residents
by Cause of Injury, Age, and Gender, 1996**

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
<i>Unintentional</i>													
Drowning/Submersion	M	1	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Fall	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Fire/Burn													
<i>Fire/Flames</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	0	1	0	0
Firearms	M	0	0	0	0	0	0	0	0	0	0	0	0
Machinery in Operation	M	0	0	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Traffic													
<i>MV Occupant</i>	M	4	0	0	0	0	1	2	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Motorcyclist</i>	M	1	0	0	0	0	0	1	0	0	0	0	0
<i>MV Pedalcycle</i>	M	1	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Pedestrian</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	1	0	0	0
<i>MV Other</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
<i>MV Unspecified</i>	M	0	0	0	0	0	0	0	0	0	0	0	0
Pedal Cyclist,Other	M	0	0	0	0	0	0	0	0	0	0	0	0
Pedestrian,Other	M	0	0	0	0	0	0	0	0	0	0	0	0
Transport,Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Natural/Environmental	M	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	3	0	0	0	0	0	1	2	0	0	0	0
	F	1	0	0	0	0	0	0	1	0	0	0	0
Suffocation	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Unintentional,Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Intentional-Suicide</i>													
Cut/Pierce	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	1	0	0	0	0
Firearms	M	1	0	0	0	0	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Poisoning	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	1	0	0	0	0
Hanging/Suffocation	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Suicide,Other	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
<i>Intentional-Homicide</i>													
Battering	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0

Black Non-Hispanic (continued)

Cause of Injury	Gender	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Cutting/Piercing	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Firearms	M	5	0	0	0	0	1	2	2	0	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0
Other Assault	M	1	1	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Undetermined/Other													
Undetermined Intent	M	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0
Legal Intervention/War	M	0	0	0	0	0	0	0	0	0	0	0	0
Late Effects													
Late Effects	M	1	0	1	0	0	0	0	0	0	0	0	0
Total	M	18	1	1	0	0	3	6	7	0	0	0	0
	F	6	0	0	0	0	0	1	3	1	1	0	0
	All	24	1	1	0	0	3	7	10	1	1	0	0

Orange County Population, 1996	M	25,079	2,632	2,414	1,960	1,803	2,011	5,602	4,587	2,377	1,209	356	128
	F	22,705	2,521	2,386	1,836	1,652	1,711	4,624	4,028	2,231	1,003	457	256
Total Number of Deaths	M	86	7	1	1	1	4	13	17	9	10	13	10
	F	74	6	0	0	1	0	2	5	7	14	12	27

Appendix D

Hospitalization Costs

Injury-Related Hospitalization Discharge Information for Orange County Residents, 1996

Cause of Injury	# of hospital stays	length of stay (days)	mean length of stay (days)	minimum stay (days)	maximum stay (days)	median stay (days)	estimated total payment	estimated mean payment per hospitalization	mean payment per day
<i>Unintentional</i>									
Cut/Pierce	331	1,539	4.6	1	40	3	\$4,729,145	\$14,287	\$3,073
Drowning/Submersion	69	285	4.1	1	37	2	\$1,169,756	\$16,953	\$4,104
Fall	7,778	48,255	6.2	1	809	5	\$132,715,123	\$17,063	\$2,750
Fire/Burn									
<i>Fire/Flames</i>	75	643	8.6	1	82	4	\$3,292,964	\$43,906	\$5,121
<i>Hot Object/Substance</i>	180	1,577	8.8	1	113	7	\$5,640,666	\$31,337	\$3,577
Firearms	45	350	7.8	1	58	4	\$2,049,110	\$45,536	\$5,855
Machinery in Operation	172	697	4.1	1	38	3	\$2,737,446	\$15,915	\$3,927
Motor Vehicle Traffic									
<i>MV Occupant</i>	1,902	10,210	5.4	1	794	3	\$45,910,641	\$24,138	\$4,497
<i>Motorcyclist</i>	255	1,554	6.1	1	71	3	\$8,775,624	\$34,414	\$5,647
<i>MV Pedalcycle</i>	106	639	6.0	1	70	4	\$3,458,074	\$32,623	\$5,412
<i>MV Pedestrian</i>	406	3,054	7.5	1	90	4	\$15,577,189	\$38,367	\$5,101
<i>MV Other</i>	24	182	7.6	2	54	3	\$1,109,041	\$46,210	\$6,094
<i>MV Unspecified</i>	119	960	8.1	1	149	3	\$4,429,804	\$37,225	\$4,614
Pedal Cyclist,Other	295	1,282	4.3	1	66	3	\$5,154,195	\$17,472	\$4,020
Pedestrian,Other	45	239	5.3	1	19	5	\$1,042,381	\$23,164	\$4,361
Transport,Other	278	1,501	5.4	1	51	4	\$6,340,349	\$22,807	\$4,224
Natural/Environmental	267	1,311	4.9	1	32	3	\$3,084,936	\$11,554	\$2,353
Overexertion	530	2,090	3.9	1	41	3	\$5,759,006	\$10,866	\$2,756
Poisoning	794	3,167	4.0	1	64	3	\$9,154,855	\$11,530	\$2,891
Struck by Object	552	2,754	5.0	1	111	3	\$7,740,366	\$14,022	\$2,811
Suffocation	77	577	7.5	1	69	4	\$2,135,662	\$27,736	\$3,701
Unintentional,other	1,032	7,391	7.2	1	324	4	\$21,098,637	\$20,444	\$2,855
<i>Intentional-Self-Inflicted</i>									
Cut/Pierce	129	956	7.4	1	47	5	\$1,935,008	\$15,000	\$2,024
Firearms	11	162	14.7	2	81	9	\$499,389	\$45,399	\$3,083
Poisoning	1,048	3,334	3.2	1	46	2	\$8,163,147	\$7,789	\$2,448
Hanging/Suffocation	10	66	6.6	1	26	5	\$184,536	\$18,454	\$2,796
Suicide(other)	72	1,148	15.9	1	148	8	\$5,573,601	\$77,411	\$4,855
<i>Intentional-Assault</i>									
Battering	29	270	9.3	1	51	6	\$863,921	\$29,790	\$3,200
Cutting/Piercing	176	769	4.4	1	42	3	\$4,424,341	\$25,138	\$5,753
Fight	230	1,031	4.5	1	52	3	\$3,160,868	\$13,743	\$3,066
Firearms	241	1,443	6.0	1	51	4	\$9,062,875	\$37,605	\$6,281
Other Assault	240	1,182	4.9	1	101	3	\$3,894,703	\$16,228	\$3,295
<i>Undetermined/Other</i>									
Undetermined Intent	67	427	6.4	1	36	4	\$1,212,027	\$18,090	\$2,838
Legal Intervention/War	20	151	7.6	1	39	3	\$695,899	\$34,795	\$4,609

Hospitalization Discharge Information (continued)

Cause of Injury	# of hospital stays	length of stay (days)	mean length of stay (days)	minimum stay (days)	maximum stay (days)	median stay (days)	estimated total payment	estimated mean payment per hospitalization	mean payment per day
<i>Late Effects</i>									
Late Effects	1,135	10,353	9.1	1	672	5	\$26,113,927	\$23,008	\$2,522
Total	18,740	111,549	6.0	1	809	4	\$358,889,213	\$19,151	\$234.10